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土木研究所資料

アジア・太平洋諸国における
土木技術研究所総覧

平成７年２月

建設省土木研究所

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土木研究所資料
第3311号1995年2月

アジア・太平洋諸国における土木技術研究所総覧

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要　旨

本報告書は，アジア・太平洋諸国における土木技術開発に関連する研究所の研究活動，組織等をとりまとめたものである。

キーワード：アジア・太平洋，土木技術，研究所

まえがき

土木技術は、日本を取り巻く国際情勢の中で、また日本をより良き社会にしていく中で、その果たす役割は極めて重要であり、日本社会に対しても、国際社会に対しても大いに貢献できる技術である。今後、日本と世界に役立つ土木技術を開発していく上で、諸外国における研究機関と情報交換、研究者の交流、共同研究等の国際研究協力を行う機会は確実に増加するものと思われる。

本報告書はそれらの活動を支援するために、アジア・太平洋諸国の土木技術に関連する研究所（韓国、中国、台湾、インドネシア、マレーシア、フィリピン、タイ、インド、バングラディッシュ、オーストラリア、イラン、ネパール、パキスタン、サウジアラビア、シンガポール、トルコの16ヶ国、201研究所）の名称、所在地、研究者及び予算の規模、組織、研究内容、活動内容、出版物等についてとりまとめたものである。とりまとめにあたっては、藤沢侃彦企画部先端技術開発研究官および池村雅司前企画部先端技術開発研究官に多大なる御協力を頂いた。本報告書は、アジア・太平洋のすべての研究所を網羅しているわけではないが、今後の国際研究協力活動の参考となれば幸いである。

平成６年２月

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1．研究所概要の整理手法

韓国、中国、台湾、インドネシア、マレーシア、フィリピン、タイ、インド、バングラディッシュ、オーストラリア、イラン、ネパール、パキスタン、サウジアラビア、シンガポール、トルコの16ヶ国、201研究所について、海外データベースDIALOGおよび収集した各国の主な研究所のパンフレットにより得られた情報を国別に以下の3様式にとりまとめた。整理は原則として英語で行い、記載順序はアルファベット順とした。

（1）国別・研究分野別研究所数

調査対象とした研究所の数を国別分野別に整理する。研究分野は土木における一般的な研究内容に従って、以下の分類とする。

- Geology （地質，土質）
- Disaster （防災）
- Structure （構造）
- Material （材料）
- Agricalture（農業土木）
- Hydraulics（河川、海洋、水理）
- Transportation （交通工学）
- Environment （環境）
- Planning （都市計画）
- General（土木全般）
- Others（情報処理、計測技術等上記の分野以外で土木技術に係わりの深い分野）

（2）国別研究所リスト

国別に研究所の総リストを作成する。1研究所数行程度に整理する。整理様式を下表に示す。

List of Research Centers

Country name : *****

① No.	② Institute name	③ Category	④ Number of people (total)	⑤ Research area	⑥ Brochure
1	Building Research Service	Planning	27	building science, materials, construction methods,	-

①No.：国毎に研究所名のアルファベット順に付番する。
②Institute name：研究所名
③Category：研究分野（1）に示した分類
④ Number of people (total)：研究所員数
⑤ Research area：代表的な研究内容
⑥Brochure：パンフレットの有無

（3）研究所総覧

1研究所1ページに以下の様式に整理する。ただし、大規模な総合研究所については、研究部門別に以下の様式に整理する。

Abstract of Institute

<table>
<tr><td rowspan="2">① Organization name</td><td>Institute name：</td><td>Section name：</td></tr>
<tr><td>Parent organization name：</td><td>Director or Office name：</td></tr>
<tr><td rowspan="2">② Address information</td><td>Country name：</td><td rowspan="2">Telephone：
Facsimile ：
Telex ：</td></tr>
<tr><td>Mailing address：</td></tr>
<tr><td rowspan="3">③ Organization description</td><td rowspan="2">Number of people
research professionalss：
supportion professionals：
Technicians：
Others：
Total：</td><td>Founding year：</td></tr>
<tr><td>Other Organization Information (Budget etc)：</td></tr>
<tr><td colspan="2">Organization Chart：</td></tr>
<tr><td>④ Research area</td><td colspan="2"></td></tr>
<tr><td>⑤ Research activities</td><td colspan="2"></td></tr>
<tr><td>⑥ Publications</td><td colspan="2"></td></tr>
<tr><td>⑦ Additional information</td><td colspan="2"></td></tr>
</table>

① Organization name：研究所名、上位機関、部門名、研究室名等の名称を記載

②Address information：国名、住所、電話、ファクシミリ番号等の連絡先を記載

③ Organization description：研究所員数、設立年等研究所の規模を明かにする事項を記載する。パンフレットを収集した研究所については、別紙に組織図を示す。

④ Research area：研究内容

⑤ Research activities：活動内容

⑥ Publications：出版物

⑦ Additional information：その他の事項

Numbers Research Centers

Category	Country name																Total
	Australia	Bangladesh	Chaina	India	Indonesia	Iran	Korea	Malaysia	Nepal	Pakistan	Phillipines	Saudi-Arabia	Singapore	Taiwan	Thailand	Tukey	
Geology	1		9	4	4			1				1		1		1	22
Hydraulics			9	3	1						1						14
Disaster			2							1						1	4
Transportation	1		5	3													9
Structure	1		2	1		1	1			2						1	8
Environment	2		2			1						1					6
Material	4		5	6				1				1			2		19
Planning	1		5		1		1		1		1		1				10
Agricalture	1	3	1		1	1		1							1		9
General	6		6	2		1			1	1	1	3	3	3	5	1	33
Others	6	3	26	7	3	3	1	1	1	2	3	4	2	3	2	1	67
Total	23	6	72	26	10	7	3	4	3	6	6	10	6	7	10	5	201

3．国別研究所総リスト

国別に研究所の総リストを示す。記載は以下の順としている。

(1) Australia
(2) Bangladesh
(3) China
(4) India
(5) Iran
(6) Indonesia
(7) Korea
(8) Malaysia
(9) Nepal
(10) Pakistan
(11) Phillipines
(12) Saudi－Arabia
(13) Singapore
(14) Taiwan
(15) Thailand
(16) Turkey

・Brochure欄の○、△、ーの意味

○：手紙、パンフレットともに届いている
△：手紙のみ届いている
ー：どちらも届いていない

List of Research Centers

Country name : Australia-1

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Australian Road Research Board Ltd.	Transportation	123	Design, planning,construction, and maintenance of roads, traffic planning and management, transport planning and economics, road safety, and transport impacts on the environment.	○
2	Centre for Environmental Studies	Environment	73	focusing on energy in society, environmental values, protection of the physical and biological environment, and integration of environment and development.	-
3	Commonwealth Scientific and Industrial Research Organisation	Environment	130	Environmental protection and land rehabilitation, soil fertility, soil management and erosion control, soil organisms and plant growth, and properties and distribution of Australian soils.	○
4	Commonwealth Scientific and Industrial Research Organisation	General	35	physical ecology, micrometeorology, soil physics, physical limnology, and applied mechanics. Division also conducts studies in mathematical aspects of ecology and geophysics.	○
5	Commonwealth Scientific and Industrial Research Organisation	General	106	in physical and chemical oceanography of Australian seas and oceans, focusing on the effect of these waters on global climate.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Australia-2

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
6	Commonwealth Scientific and Industrial Research Organisation	General	284	1) statutory standards of measurement and calibration sciences; 2) electrotechnology; 3) applied electricity and magnetism; 4) plasmas, thin films and thermometry; 5) acoustics and mechanics; 6) optical technology.	-
7	Commonwealth Scientific and Industrial Research Organisation	General	302	fire technology, structural engineering, building materials, planning and management systems, and engineered products and services.	○
8	Commonwealth Scientific and Industrial Research Organisation	General	7,000	Carries out scientific research to assist Australian industry and to further the interests of the Australian community.	△
9	Commonwealth Scientific and Industrial Research Organisation	Geology	85	basic and applied research on the geology, physics, and mechanisms of geologic systems in order to achieve precision in prediction and control of system performance during geoengineering operations. Operations include mining, underground construction, sub-surface isolation of waste, and marine geoengineering.	○

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Australia-3

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
10	Commonwealth Scientific and Industrial Research Organisation	Material	109	to develop new and improved products, processes, and materials to improve the competitiveness of the Australian metals and related engineering industries and to develop integrated manufacturing technologies and derived products to improve the productivity of all manufacturing industries.	△
11	Commonwealth Scientific and Industrial Research Organisation	Material	163	assist Australian industry by developing new and improved materials, processes, and instruments. Research focuses on the properties, behavior, and utilization of industrial materials	○
12	Commonwealth Scientific and Industrial Research Organisation	Others	11	national and international space projects, remote sensing, and communications.	○
13	CommonwealthScientific and Industrial Research Organisation	Others	62	research in applied mathematics, focusing on computational fluid dynamics and process modelling, and in statistics, focusing on quality improvement, statistical modelling, computationally intenstive methods, signal and image analysis, graphics and statistical computing.	-
14	Commonwealth Scientific and Industrial Research Organisation	Others	74	Knowledge-based systems engineering, high-performance computing, and spatial information systems.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Australia-4

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
15	Commonwealth Scientific and Industrial Research Organisation	Planning	240	develop new or improved practices for the definition, use, and management of Australia's water resources, including maintenance of the quantity and quality of urban, rural, and industrial water supplies.	-
16	Department of Earth Sciences	Others	6	Regional seismology, earthquake engineering, and seismological risk, with emphasis on data collection and analysis.	○
17	Forestry Commission of N.S.W., Wood Technology and Forest Research Division	Agriculture	107	carries out field and laboratory research in the areas of: silviculture; tree breeding; soils and nutrition; hydrology; fire, wildlife, and forest ecology; pathology; entomology	-
18	Institute of Antarctic and Southern Ocean Studies	General	7	Polar and oceanic research with special emphasis on Antarctica and southern oceans, including law, policy, environmental management, and natural and physical sciences.	-
19	James Cook Cyclone Structural Testing Station	Structure	6	Station's industrial research and testing program	○
20	Julius Kruttschnitt Mineral Research Centre	Others	90	Centre's research and development program is concerned with the optimization of rock breakage by blasting and mineral and coal processing.	○

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Australia-5

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
21	Materials Research Laboratory	Material	632	organic and physical chemistry, physics, metallurgy, explosive materials and ballistics, protection of personnel and equipment, and underwater events.	-
22	Research School of Physical Sciences and Engineering	Material	330	basic research in selected branches of the mathematical, physical, and engineering sciences,	○
23	Telecom Australia Research Laboratories	Others	530	basic and applied research in the natural sciences, communications andtechnology, engineering, social sciences, and developing technologies.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Bangladesh

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Bangladesh Academy for Rural Development	Others	340	public administration, rural economics,agricultural engineering,	-
2	Bangladesh Agricultural Research Institute	Agricalture	2,816	plant breeding, plant pathology, agricultural engineering, soil science, entomology,	○
3	Bangladesh Agricultural University Research System	Agricalture		farm crops, farming systems, agricultural economics, agricultural engineering	-
4	Bangladesh Standards and Testing Institution	Others	248	to formulate national standards specifications to establish metrology laboratories	○
5	Bangladesh Industrial Technical Assistance Centre	Others	600	improvement of industrial productivity,	-
6	Bangladesh Forest Research Institute	Agricalture	601	woodworking and timber engineering, soil science, forest protection.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Chaina-1

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Anhui Machinery Scientific Research Institute	Others	600	machinery design, metal casting , heat treatment,remote sensing	-
2	Beijing Central Engineering and Research Institute for Nonferrous Metallurgical Industries	General	2,100	the nonferrous metals industry, civilengineering design, cement plantsdesign, and computer center servicing.	-
3	Beijing Environment Sanitation Scientific Research Institute	Environment	177	municipal solid waste and night soil disposal techniques, health facilities,	-
4	Beijing Institute of Packaging and Design	Others	40	design and decoration engineering	-
5	Beijing Research Institute of Coal Mining	Geology		coal mining	-
6	Beijing Solar Energy Research Institute	Others	135	solar energy	-
7	Beijing Strong Motion Observation Center	Disaster	15	earthquake engineering, vibration measurements, and vibration isolation techniques.	-
8	Central Research Institute of Building and Construction	General	1,004	Industrial construction and environmental protection.	-
9	China Academy of Railway Sciences	Transportat-ion	4,000	railway sciences	○
10	China Automotive Technology and Research Center	Transporta-tion	462	automotive engineering,	-
11	China Electronics Engineering Design Institute	Planning	868	Engineering design,	-
12	China National Garments Research and Designing Center	Others	200	garment technology	-
13	China Northeast Building Design Institute	Planning	857	industrial buildings, public buildings,	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Chaina-2

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
14	Changchun Automobile Research Institute	Transportat-ion	1,064	testing automobiles and trucks.	-
15	Changsha Design and Research Institute of Non-Ferrous Metallurgy	Material	1,287	Geology, mining,heavy metal metallurgy, ystem engineering,	-
16	Chinese Academy of Agricultura lEngineering, Research, and Planning	Others	361	agricultural engineering. agricultural economics.	-
17	Chinese Academy of Geological Sciences	Geology	6,800	geosciences.	△
18	Chongqing Highway Research Institute	Transportat-ion	628	Chongqing,Highway,bridgeengineering,automotive operations, coach bus technology, computerapplication , technology,	-
19	Computer Science andEngineering Institute	Others		computer networks, intelligentsoftware, computer design, computer programming language andtheory.	-
20	Dalian Diesel Locomotive Research Institute	Others	351	diesel injection systems, locomotive cooling systems,	-
21	Electrical Power Construction Research Institu	Structure	398	Transmission pole tower structures; welding metallography, thermal power engineering,	-
22	Engineering Research Center forInformation Systems	Others	20	computer andlocal areanetworks,computer systemarchitecture.	-
23	First Design Institute of Navigation Engineering	Planning	880	hydrography, meteorology; ship, navigational channel,	-
24	Fourth Design and Research Institute of Machine-Building and Electronics	Others	731	the automobile, tractor, internal combustion engine, farm machinery, light industry,	-

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Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Chaina-3

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
25	Guangxi Applied Physics Institute	Others	54	Laser applications, energy,solar water heaters, microcomputers,	-
26	Guangxi Research and Design Institute of Architectural Science	Structure	109	building and construction industry.	-
27	Hefei Institute of Intelligent Machines, Academia Sinic	Others	200	industrial applications and multisensor systems; artifical intelligence,	-
28	Hunan Academy of Agricultural Sciences	Agricalture	715	agricultural resources, soil, fertilizer; biological engineering,	-
29	Hunan Hydro and Power Design Institute	Hydraulics	652	applied hydraulics, construction materials, structure model tests, power system protection and control.	-
30	Hubei Mechanical Research Institute	Others	247	electromechanical technology,	-
31	Institute of Computational Mathematics and Applied Mathematics	Others	22	mathematics.	-
32	Institute of Engineering Mechanics	Disaster	557	earthquake,vibration	-
33	Institute of Engineering Mechanics	Others	57	composite mechanics, fatigue fracture noise control, biomechanics.	-
34	Institute of Exploration Engineering	Others	104	exploration engineering.	-
35	Institute of Geology, Academia Sinica	Geology		Geology,	-
36	Institute of Geology and Exploration - CCMRI Xian Branch	Geology	365	mining geology, hydrogeology, engineering geology,	-

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Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Chaina-4

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
37	Institute of Hydrogeology and Engineering Geology	Hydraulics	432	Hydrology and engineering geology.	-
38	Institute of Karst Geology	Geology	287	geomorphology ,geochemistry, speleology, hydrogeology, environmental , soil, rock, micropaleontology;	-
39	Institute of Mechanical Engineering	Others		machine tools, machinery fault diagnosis,wear-resistant materials,	-
40	Institute of Project Planning and Research	Others		consultancy, planning, and design of engineerin	-
41	Institute of Rock and Mineral Analysis	Geology	180	basic geology, mineral geology, hydrogeology,	-
42	Institute of Rock and Soil Mechanics, Academia Sinica	Geology	321	rock and soil	-
43	Institute of Software, Academia Sinica	Others	312	Computer science;system software	-
44	Institute of Water Conservation and Hydroelectric Power Research	Hydraulics	1665	water Resource	△
45	Lanzhou Engineering and Research Institute for Nonferrous Metallurgical Industry	Material	492	nonferrous metals, metallurgy, construction materials, engineering design,	-
46	Luoyang Institute of Refractories Research	Material	395	raw materials, inorganic nonmetal materials,thermal engineering.	-
47	Materials Science and Engineering Research Institute of Qinghua University	Material	170	research in materials science and engineering,	-
48	Metallurgical Planning and Design Institute, Henan	Others	200	mine, metallurgy, machine , civil ,electrical and electronic technology.	-

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Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Other	

List of Research Centers

Country name : Chaina-5

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
49	Nanchang Nonferrous Metals Metallurgical Engineering and Research Institute	Material	960	nonferrous metals.	-
50	Nanjing Hydraulic Research Institute	Hydraulics	1,000	engineering hydraulics,soil, environment	-
51	Northwest Institute	Transportat-ion	210	landslide control; railway construction	-
52	Population Research Institute	Planning		echnical demography; population and economy;	-
53	Qiqihar Research Institute of Science and Technology	Geology	64	locomotives, coaches, and wagons; roadbeds and bridges;	-
54	Research Center for Eco Environmental Sciences, Academia Sinica	Environment	432	ecology; environment ,pollution control.	-
55	Research Institute of Water Conservation and Hydroelectric Power	Hydraulics	24	hydrogeology, electronic and computer techniques,	-
56	Second Institute of Project Planning and Research	Hydraulics	314	project planning, feasibility studies, design, technology, and consultancy for various machinery industries.	-
57	Seventh Design and Research Institute	General	927	materials;textile, medical, chemical environmental protection, wastewater treatment ,	-
58	Shanghai City Planning and Designing Institute	Planning	182	residential planning, communications road traffic, municipal installations, scenic areas.	-
59	Shanghai Institute of Mechanical and Electrical Engineering	Others	860	building engineering,	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Chaina-6

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
60	Shanghai Light Industry Research Institute	Others	302	fine chemicals,pollution control, mechanical designs;	-
61	Shanghai Ship and Shipping Research Institute	Others	670	ship structure, ship hydrodynamics, marine anti-pollution,	-
62	Shenyang Institute of Computer Technology, Academia Sinica	Others	400	hardware, software, computer applications, microsystem	-
63	Sixth Institute of Project Planning and Research	General	450	planning, civil buildings, environmental protection,	-
64	South China Sea Institute of Oceanology, Academia Sinica	Hydraulics	701	oceanology,	-
65	South-West Research Institute of Water Transport Engineering	Hydraulics	64	Water transport engineering, harbor engineering, river engineering,	-
66	Systems Engineering Institute	Others	69	large-scale systems theory, systems analysis; mathematical demography	-
67	Theory of Lubrication and Bearing Institute	Others	24	mathematical physics, mathematical mechanics,	-
68	Third Survey and Design Institute	General	1,366	railways, highways, bridges, tunnels; civil building;	△
69	Tianjin Port Engineering Institute	General	340	geotechnical engineering, hydraulic model,coastal environments, civil,	-
70	Wuhan Institute for Mathematical Sciences, Academia Sinica	Others	68	Mathematics	-
71	Yangtze Research Institute of Geotechnique and Survey	Geology	51	Geotechnical engineering,	-
72	Yangtze River Scientific Research Institute	Hydraulics	1,033	Geotechnical engineering,	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : India-1

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	ACC Central Research Station	General	122	process engineering , geology, environment and mining, erection and construction,	-
2	Automotive Research Association of India	Transportat-ion	263	automotive vehicles and parts	-
3	Bharat Heavy Electricals Limited, Corporate Research and Development Divisio	Material	1,035	electrical engineering,mechanical sciences, material sciences and metallurgy, chemical sciences,	-
4	Bureau of Indian Standards	Others	2,263	standardization, quality control, certification.	-
5	Central Building Research Institute	General	662	building industry, geotechnical engineering, civil engineering, fire research,	○
6	Central Electrochemical Research Institute	Material	715	corrosion science and engineering, metal finishing,	-
7	Central Mining Research Station	Geology	519	Rock mechanics and mining methods and techniques	○
8	Central Research Institute for Jute and Allied Fibres	Geology	451	agronomy, plant breeding and genetics, soil science,	-
9	Central Road Research Institute	Transportat-ion	498	Highway, traffic, and transportation engineering,	-
10	Central Soil and Materials Research Station	Geology	531	soil mechanics, rockfill technology, concrete, geophysical investigations,	○
11	Central Soil Salinity Research Institute	Geology	406	Soil science, agronomy,genetics, plant physiology, agricultural engineering and economics,	-
12	Engineers India Limited, Research and Development Division	Others	101	process design tools, process technology, and equipment development.	-
13	Indian Agricultural Research Institute	Others	4,381	Agricultural science	-
13-1	IARI Water Technology Centre	Hydraulics	152	water technology,	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : India-2

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
14	Indira Gandhi Centre for Atomic Research	Material	1,968	materials science and engineering, fuel reprocessing, reactor safety,	-
15	Indian Institute of Chemical Technology	Material	1,287	Chemical technology,	-
16	Indian Plywood Industries Research Institute	Material	108	wood, plywood, and other wood-based panels.	-
17	ISRO Satellite Centre	Others	2,222	satellite technology,	-
18	National Chemical Laboratory	Others	1,099	food,energy, health, and use of Indian natural resources;	-
19	National Institute of Oceanography	Hydraulics	627	physical, chemical, biological, geological, geophysical, and engineering aspects of the seas around India;	○
19-1	NIO Ocean Engineering Division	Hydraulics		measures to control coastal erosion,stability of tidal inlets and hydrodynamics of estuaries; design, construction,	-
20	Regional Research Laboratory,Bhubaneswar	Others	261	Mineralogy, metallography, special materials, chemicals,	-
21	Regional Research Laboratory, Jorhat	Others	601	analytical chemistry, biochemistry,, chemical engineering, general engineering,	-
22	Research Designs and Standards Organisation!	Transporta -tion	4,207	design and standardization of all railway assets.	△
23	Structural Engineering Research Centre	Structure	145	design and structural problems of bridges, multistory structures, and underground structures.	-
24	Thapar Corporate Research and Development Centre	Material	74	chemical and biochemical engineering, materials science, computers and mechanics	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Indonesia

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Directorate of Environmental Geology	Geology	572	geologic and hydrogeologic information,earth science,civil engineering construction,	○
1-1	DEG Drilling, Workshop, and Geophysics Directory	Geology		conduct churn, rotary,geophysical investigations	-
1-2	DEG Engineering Geology Division	Geology		geologic and geomorphic aspects,landslide morphology, scale, rates,	-
2	Forest Products Research and Development Center	Others	286	Forest products technology and forest economics	-
3	Institute of Human Settlements	Planning	353	human settlements,water purification,	-
4	Institute for Research and Development of Handicraft and Batik Industries	Others	247	the handicraft and batik industries,	-
5	Institute of Road Engineering	Transportation	363	road engineering, traffic and transportation, and structures.	
6	Laboratory and Testing Institute for Industrial Products	Others	134	ndustrial raw materials and products, food and animal feed industries and building materials industry,	-
7	Research and Development Center for Geotechnology	Geology	216	geotechnology,	-
8	Research Institute for Water Resources Development	Hydraulics	697	hydraulic engineering,	△
9	Rural Development Studies Center	Agricalture		drainage and irrigation, crop husbandry, livestock husbandry and nutrition,	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Iran

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Biochemical and Bioenvironmental Research Center	General	20	biochemical engineering, environmental science, water and wastewater engineering,ecology, industrial fermentation, biotechnology, food science, food preparation, and microbiology.	-
2	Building and Housing Research Center	Structure	130	research in the areas of building and housing.	-
3	Department of the Environment	Environment	3,000	to coordinate the policies and strategies of economic, social, and cultural programs with the general policies of environmental preservation;	-
4	Research Institute of Petroleum Industry	Others	700	petroleum technology	-
5	Safiabad Agricultural Research Center	Agriculture	339	Agriculture and the Agricultural and Natural Resources	-
6	Solar Energy Center	Others	9	solar energy and radiation	-
7	Technical and Soil Mechanics Laboratory	Others	749	soil mechanics and foundations, geotechnical engineering and field investigation, pavement materials, and engineering properties of construction materials	△

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name.:Korea

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Korea Institute of Science and Technology	Other	1,340	Metal,ceramecs, Polymer Science and engineeing, Chemistry,	○
2	Korea Institute of construction	Structure		Structural analysis, Construction materials,Highway design methodology,	○
3	Korea Research Institute for Human Settlements	Planning	197	theory and methodology development and various poilicyoriented analysis applicable to critical evaluation of public issues	○

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Malaysia

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Asian and Pacific Development Center	Others	73	poverty, policy-making, world environment,	-
2	Geological Survey of Malaysia	Geology	669	geoscientific data, mineral industry	○
3	Malaysian Agricultural Research and Development Institute	Agricalture	1,581	Commodity research, Supportive research, biotechnology,	-
4	Standards and Industrial Research Institute of Malaysia	Material	911	materials, apropriate technology, chemical technology, industrial biotechnology,	△

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Nepal

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	International Center for Integrated Mountain Development	Planning	118	forestry, mountain resource systems (including hill farming), watershed management, rural energy planning, urbanization, information systems,livestock development, and land use patterns.	○
2	National Council for Science and Technology	Others	13	Science and technology policy and research and development	-
3	Research Centre for Applied Science and Technology	General	83	natural products, alternative and renewable energy sources, food and allied products, natural fibers, construction and building materials, and post-harvest technology.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
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List of Research Centers

Country name : Pakistan-1

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Building Research Station Lahore	Structure	142	Building construction and materials, low cost housing, development and evaluation of building materials from indigenous sources, and soil mechanics.	-
2	Cholistan Institute of Desert Studies	Disaster	31	on deserts includes studies in: water conservation; saline water agriculture; range management; plant breeding; soil-plant relationships; dunes stabilization; solar, wind, and biogas energies; and transfer of technology to desert dwellers.	○
3	National Building Research Institute	Structure	100	Structural engineering, building materials, soil engineering, building services, building physics, fire research, and technology transfer.	-
4	Pakistan Council for Science and Technology	Others	33	research on issues relating to the management, policy making, planning, promotion, and application of science and technology in Pakistan and functions as an advisory body to the government.	○
5	Pakistan Council of Scientific and Industrial Research	General	2000	food technology, metallurgy, oils and fats, fermentation, drugs and pharmaceuticals, glass and ceramics,agro-industrial chemicals, leather, and fuel, as well as rural technology and training in instrumentation mechanics.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Pakistan-2

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
6	Pakistan Forest Institute, Peshawar	Others	127	Forestry, watershed and range management, forest products, and forest engineering, sericulture, forest education, biological sciences, and wildlife management.	○

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Philippines

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Building Research Service	Planning	27	building science, materials, construction methods,	-
2	National Engineering Center	General	91	building research, computers and communication, energy, metallurgy, transportation, systems research,	-
3	National Hydraulic Research Center	Hydraulics	21	hydraulic research ,	○
4	Natural Sciences Research Institute	Others	113	Biology, chemistry, mathematics, meteorology, molecular biology.	-
5	Philippine National Science Society	Others	763	governmental, educational, international policies; mathematics; medicine; biology; chemistry; humanities;	-
6	Technology Application and Promotion Institute	Others	62	Technology promotion, transfer and commercialization	-

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Geology	Hydraulics	Disaster	Transportation
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Agricalture	General	Others	

List of Research Centers

Country name : Saudi Arabia-I

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Division of Energy Resources	Others		Activities of the Energy Systems Group cover a wide range of energy systems in buildings and industry	○
2	Division of Geology and Minerals	Geology	22	sand control, desertification, vegetation, sand stabilization, and engineering geology.	○
3	Division of Metrology, Standards and Materials	Material		utilization and optimization of construction materials in the local environment	○
4	Division of Petroleum and Gas Technology	Others	350	Council conducts research on issues relating to the management, policy making, planning, promotion, and application of science and technology in Pakistan and functions as an advisory body to the government.	○
5	Hajj Research Center	General	65	use of animals for sacrifice; movement of pilgrims and vehicles through various Hajj areas; pilgrim accommodations,	-
6	Islamic Foundation for Science, Technology and Developmen	Others	31	to promote and encourage scientific and technological research within an Islamic framework; to promote cooperation and coordination of research activities;	-

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Geology	Hydraulics	Disaster	Transportation
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Agriculture	General	Others	

List of Research Centers

Country name : Saudi Arabia-2

No.	Institute name	Category*	Number of people (total)	research area	Brochure
7	King Abdul Aziz City for Science and Technology	General	487	formulate and implement national policy for science and technology development;	○
8	King Abdul Aziz Research Center	Others	92	Center conducts and promotes research on the history of Saudi Arabia	-
9	Research Institute, King Fahd University of Petroleum and Minerals	General	334	in the utilization of its petroleum, mineral, and water resources; and to develop the use of other energy resources applicable in Saudi Arabia	○
10	Water Resources and Environment Division	Environment	55	water resources; environmental pollution, focusing on water and air pollution and solid waste; the bioenvironment,	○

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Singapore-1

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Applied Research Corporation	General	15	carries out research and surveys on a contractual basis. Areas of interest include technology, socioeconomics, economics, business, management, and health.	○
2	Institute of Physics, Singapore	General		high-energy physics, materials science, solid state physics, nuclear physics, atomic physics, and applied physics.	-
3	Lee Kong Chian Centre for Mathematical Research	Others	114	research in pure and applied mathematics.	△
4	Meteorological Service Singapore	Others	128	Meteorology, including studies of local weather and monsoons.	△
5	Science Council of Singapore	Planning	18	growth and development of national scientific and technical capabilities	-

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Geology	Hydraulics	Disaster	Transportation
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Agriculture	General	Others	

List of Research Centers

Country name : Singapore-2

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
6	Singapore Institute of Standards and Industrial Research	General	420	1) Technical Engineering and Scientific Services Divisioncarries out studies in physical and nondestructive testing, mechanical and structural engineering, analytical chemistry, food technology and microbiology, and chemical processes; 2) Materials Technology and Application Center conducts research on metals, plastics, and chemistry; 3) Standards and Quality Assurance Divisioncarries out studies in standardization, quality assurance, metrology, 4) Development of electronics products, machines, and automated equipment.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

List of Research Centers

Country name : Taiwan

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Geotechnical Research Center	Geology	16	geotechnical engineering,	-
2	Industrial Technology Research Institute	Material	5,121	electronics, machinery, materials, chemical ,energy resources,	-
3	Institute of Information Science	Others	64	studies in Chinese speech, computer graphics, algorithm analysis, networking,	-
4	Mechanical Industry Research Laboratories	Material	1,126	metals and mechanical engineering	-
5	Metal Industries Development Centre	Material	347	the local metal and engineering industries.	-
6	Refining and Manufacturing Research Center	Others	478	petroleum products, environmental engineering, material science,	-
7	Union Chemical Laboratories	Others	586	fiber spinning technology, chemical process development, biotechnology, pollution control	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Thailand

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Asian Institute of Technology	General	800	agricultural and food engineering, environmental engineering ,water resources engineering,	○
2	Engineering Institute of Research and Development	Others	30	energy, agricultural machinery, materials, environmental, industrial engineeting.	-
3	Forest Products Research Division	Material	168	wood properties, timber utilization and engineering,wood protection,	-
4	Kasetsart University Research and Development Institute	Agricalture	207	agricultural machinery, soils and fertilizers, sugar production, corn and sorghum,	-
5	National Center for Genetic Engineering and Biotechnology	Others	17	agriculture, industry, public health, energy, the environment	-
6	Regional Center of Mineral Resources Region Three (Chiangmai)	Geology	50	geology, mining engineering,ore dressing,mineral chemistry.	-
7	Regional Research and Development Center	General	135	agricultural and food engineering, computer applications, environmental engineering,	-
8	Thailand Institute of Scientific and Technological Research	General	742	industrial, environmental, building, and agricultural development	○
8-1	TISTR Engineering Industry Department	General		machinery products,	-
8-2	TISTR Metal and Material Technology Department	Material	18	mineral, metal, plastic, and ceramic industies	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agricalture	General	Others	

List of Research Centers

Country name : Turkey

No.	Institute name	Category*	Number of people (total)	Research area	Brochure
1	Ankara Seismic Research Observatory Ankara Sismoloji Istasyonu	Others	3	Analog and digital seismic data.	-
2	Building Research Institute Yapi Arasirma Enstitusu	Structure	106	building planning processes, and construction with respect to technological, economic, and management criteria; to advise public authorities and the industry in matters related to building technologies and management techniques; to promote the education and training of research personnel; and to collect, process, and disseminate information on building research through publications and scientific meetings.	-
3	Department of Technical Research and Materials Teknik Arasirma Dairesi Basanlig	Geology	131	concerned with geotechnical and geophysical investigations, airphoto interpretations, soil and rock mechanics, tunneling, testing and quality control of highway materials, and pavement design and deflection studies.	-
4	Earthquake Research Department Deprem Arasirma Dairesi	Disaster	81	Seismology, seismic, and earthquake engineering; soil investigations; structural testing, and disaster preparedness and management.	-
5	Scientific and Technical Research Council of Turkey Turkiye Bilimsel ve Teknik Arasirma Kurumu	General	1025	agriculture, engineering, basic sciences, medicine, veterinary medicine and animal husbandry, and environmental sciences.	-

* Organizations are grouped into the follwing 11 categories according to the research area of civil engineering.

Geology	Hydraulics	Disaster	Transportation
Structure	Environment	Material	Planning
Agriculture	General	Others	

ABSTRACT

OF

INSTITUTE

Australia

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Australian Road Research Board Ltd</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. I. R. Johnston, Executive Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (03) 881-1555
Facsimile : (03) 887-8104
Telex : AA 33113</td></tr>
<tr><td>Mailing address :
PO Box 156, Nunawading,
Victoria 3131, Australia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals : 43
supporting professionals : 20
Technicians : 24
Others : 36
Total : 123</td><td>Founding year :
1960</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Design, planning, construction and maintenance of roads, traffic planning and management, transport planning and economics, road safety, environmental impacts, instrumentation and new technologies.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results are published in technical reports, journals and conference proceedings supported by a technology transfer program.</td></tr>
<tr><td>Publications</td><td colspan="2">· Road and Transport Research (quarterly journal)
· Conference proceedings (biennial)
· Briefing (monthly newsletter)
· Research Reports (25-30 per year)
· Roadlit (a fortnightly listing of new library accessions)
· annual report, research program, new publications booklet, product brochures</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Transportation

Australia - 2

Organization name	Institute name : Centre for Environmental Studies (CES)	Section name :
	Parent organization name : the Department of Geography and Environmental Studies at University of Tasmania.	Director or Office name : Dr. John J. Todd, Coordinator
Address information	Country name : Australia Mailing address : University of Tasmania GPO Box 252C Hobart, Tasmania 7001, Australia	Telephone : 202390 Facsimile : 202989 Telex :
Organization description	Number of people Research professionals : 6 Supporting professionals : 3 Technicians : 2 Others : 2 Postgraduate students : 60 Total : 73	Founding year : 1975 Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Environmental studies focusing on energy in society, environmental values, protection of the physical and biological environment, and integration of environment and development.	
Research activities	Research results published in journals, research reports, and books, and in the Centre's own occasional papers, working papers, fuelwood research reports, internal reports, and confidential contract reports. Meetings/Educational Activities: Conducts the Richard Jones Memorial Lecture (annual) and various conferences and seminars.	
Publications		
Additional information		

Category : Environment

Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : CSIRO Division of Soils
	Parent organization name :	Director or Office name : Dr. John Williams, Chief
Address information	Country name : Australia	Telephone : (06) 2465942 Facsimile : (06) 2465965 Telex :
	Mailing address : G.P.O. Box 639 Canberra, South Australia 2601, Australia	
Organization description	Number of people Research professionals : 36 Supporting professionals : 50 Technicians : 14 Others : 30 Total : 130	Founding year :
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Environmental protection and land rehabilitation, soil fertility, soil management and erosion control, soil organisms and plant growth, and properties and distribution of Australian soils.	
Research activities	Findings are published in primary journals, and as research reports, proceedings, booklets, brochures, and textbooks.	
Publications	· Annual Report; Divisional Reports; · Soils and Land Use Series; Soils Briefs.	
Additional information		

Category : Environment

Australia - 4

Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : CSIRO Centre for Environmental Mechanics
	Parent organization name :	Director or Office name : Dr. J.J. Finnigan Head
Address information	Country name : Australia	Telephone : (06) 246-5646 Facsimile : (06) 246-5560 Telex :
	Mailing address : G.P.O. Box 821 Canberra, ACT 2601, Australia	
Organization description	Number of people Research professionals : 15 Supporting professionals : 8 Technicians. : 6 Others : 6 Total : 35	Founding year : 1985
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Centre conducts physical investigations of energy exchange, heat and momentum transfer, and the movement of natural and introduced substances (i.e., water, carbon dioxide, salts and fertilizers) in the environment, with special attention to plants, soils, and the lower layers of the atmosphere. Principal fields of research include: physical ecology, micrometeorology, soil physics, physical limnology, and applied mechanics. Division also conducts studies in mathematical aspects of ecology and geophysics.	
Research activities	Research findings are published in primary journals, and as research reports, proceedings, and monographs.	
Publications	· Biennial Report and Information Booklets.	
Additional information		

Category :General

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Commonwealth Scientific and Industrial Research Organization (CSIRO)</td><td>Section name :
Division of Oceanography</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. A. D. McEwan, Chief</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (002) 206222
Facsimile : (002) 240530
Telex : 57182</td></tr>
<tr><td>Mailing address :
Castray Esplanade G.P.O. Box 1538
Hobart, Tasmania 7001, Australia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
Research professionals : 21
Supporting professionals : 38
Technicians : 22
Others : 25
Total : 106</td><td>Founding year :
1981</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division conducts research in physical and chemical oceanography of Australian seas and oceans, focusing on the effect of these waters on global climate. Objectives are to promote understanding of all forms of maritime activity and to promote development and application of instruments, techniques, and expertise to assist industry and public agencies with marine interests.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research findings are published in primary journals, and as proceedings and monographs.</td></tr>
<tr><td>Publications</td><td colspan="2">· CSIRO Marine Laboratories Research Report (triennially)
· Research Report series (irregularly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Commonwealth Scientific and Industrial Research Organization (CSIRO)</td><td>Section name :
Division of Applied Physics</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. William R. Blevin, Chief</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (02) 413-7211
Facsimile : (02) 413-7631
Telex : 26296</td></tr>
<tr><td>Mailing address :
National Measurement Laboratory
P.O. Box 218 Lindfield, NSW 2070,
Australia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
Research professionals : 57
Supporting professionals : 72
Technicians : 100
Others : 55
Total : 284</td><td>Founding year :
1938</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division conducts research in applied physics aimed primarily at solving problems in industry and in the community; and works with industry in applying new developments. An important part of Division's work is in maintenance of Australian standards for measurement of physical quantities. Principal fields of research interest are: 1) statutory standards of measurement and calibration sciences; 2) electrotechnology; 3) applied electricity and magnetism; 4) plasmas, thin films and thermometry; 5) acoustics and mechanics; and 6) optical technology.</td></tr>
<tr><td>Research activities</td><td colspan="2">Findings are published in primary journals, and as research reports, technical papers, proceedings, and monographs.</td></tr>
<tr><td>Publications</td><td colspan="2">· CSIRO Division of Applied Physics Technical Paper Series;
· Tests and Measurements (including fee schedules);
· Division of Applied Physics Biennial Reports.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Commonwealth Scientific and Industrial Research Organization (CSIRO)</td><td>Section name :
Division of Building, Construction, and Engineering</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mr. K. G. Martin, Chief</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (03) 2526000
Facsimile : (03) 2526241
Telex : 33766</td></tr>
<tr><td>Mailing address :
P.O. Box 56- Highett, Victoria 3190, Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 56
Supporting professionals : 76
Technicians : 94
Others : 76
Total : 302</td><td>Founding year : 1928
1988 Reorganization</td></tr>
<tr><td>Other Organization Information (Budget etc) :
Budget $26M</td></tr>
<tr><td colspan="2">Organization Chart : Chief + 2 Assistant Chiefs
Management and Advisory Committees
5 Research + 2 Support Programs</td></tr>
<tr><td>Research area</td><td colspan="2">Areas of research interest include fire technology, structural engineering, building materials, planning and management systems, and engineered products and services.</td></tr>
<tr><td>Research activities</td><td colspan="2">Findings are published in primary journals, and as research reports and proceedings.</td></tr>
<tr><td>Publications</td><td colspan="2">· Focus (quarterly, in English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

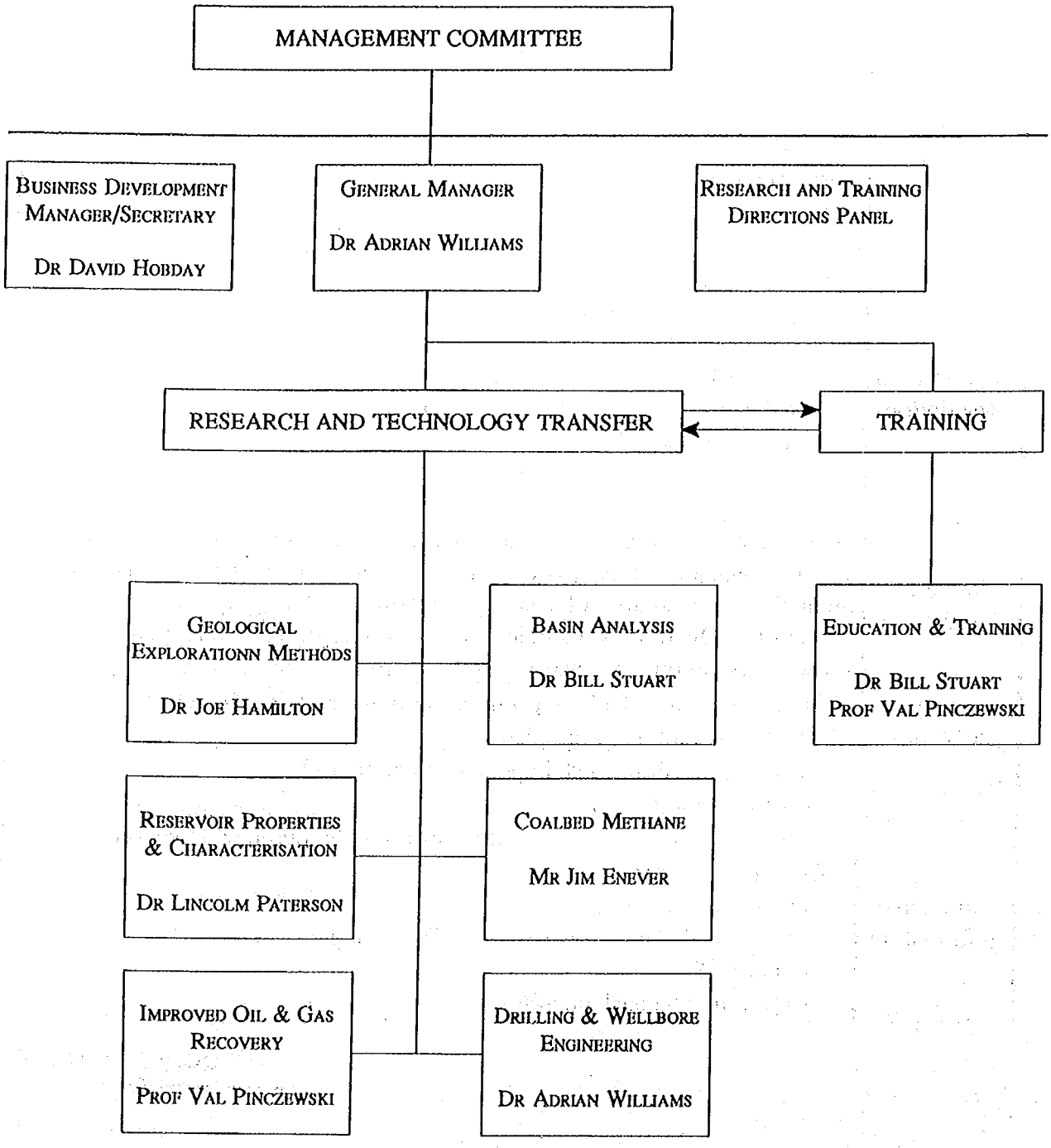
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Commonwealth Scientific and Industrial Research Organisation (CSIRO)</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Australian Government</td><td>Director or Office name :
Dr. J.W. Stocker, Chief Executive</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (03) 662-7111
Facsimile : (03) 662-7196
Telex :</td></tr>
<tr><td>Mailing address :
CSIRO Head Office
407 Royal Parade
PARKVILE 3052
Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
professionals : 2500
Total : 7,000</td><td>Founding year :
1926</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Carries out scientific research to assist Australian industry and to further the interests of the Australian community. Also encourages or facilitates the application and use of the results of its own or any other scientific research. The research work of the Organization is carried out in six institutes, each consisting of divisions and units with related research interests: Animal Production and Processing; Industrial Technologies; Information/Science and Engineering; Minerals, Energy, and Construction; Natural Resources and Environment; and Plant Production and Processing.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : CSIRO Division of Geomechanics
	Parent organization name :	Director or Office name : Dr. B. E. Hobbs, Chief
Address information	Country name : Australia	Telephone : (3) 235-1355 Facsimile : (3) 233-2052 Telex : 32363
	Mailing address : P.O. Box 54 Mount Waverly, Victoria 3149, Australia	
Organization description	Number of people Research professionals : 21 Supporting professionals : 21 Technicians : 25 Others : 18 Total : 85	Founding year : 1958
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division conducts basic and applied research on the geology, physics, and mechanisms of geologic systems in order to achieve precision in prediction and control of system performance during geoengineering operations. Operations include mining, underground construction, sub-surface isolation of waste, and marine geoengineering.	
Research activities	Findings are published in primary journals, and as research reports, proceedings; and monographs.	
Publications	· Abstracts of Published Papers (semiannually); · GM Index (annually).	
Additional information	* Division of Geomechanics will be absorbed by two new Divisions from 1 Jury 1993. New division address : Queensland Centre for Advanced Technologies PO box 883 Kenmore, Queensland 4069	

Category : Geology

The new Research and Training Directions Panel is in the process of being established under the Chairmanship of Mr S Koroknay. This will be a small industry-dominated panel, which will provide advice on priorities and resource allocation to the General Manager.



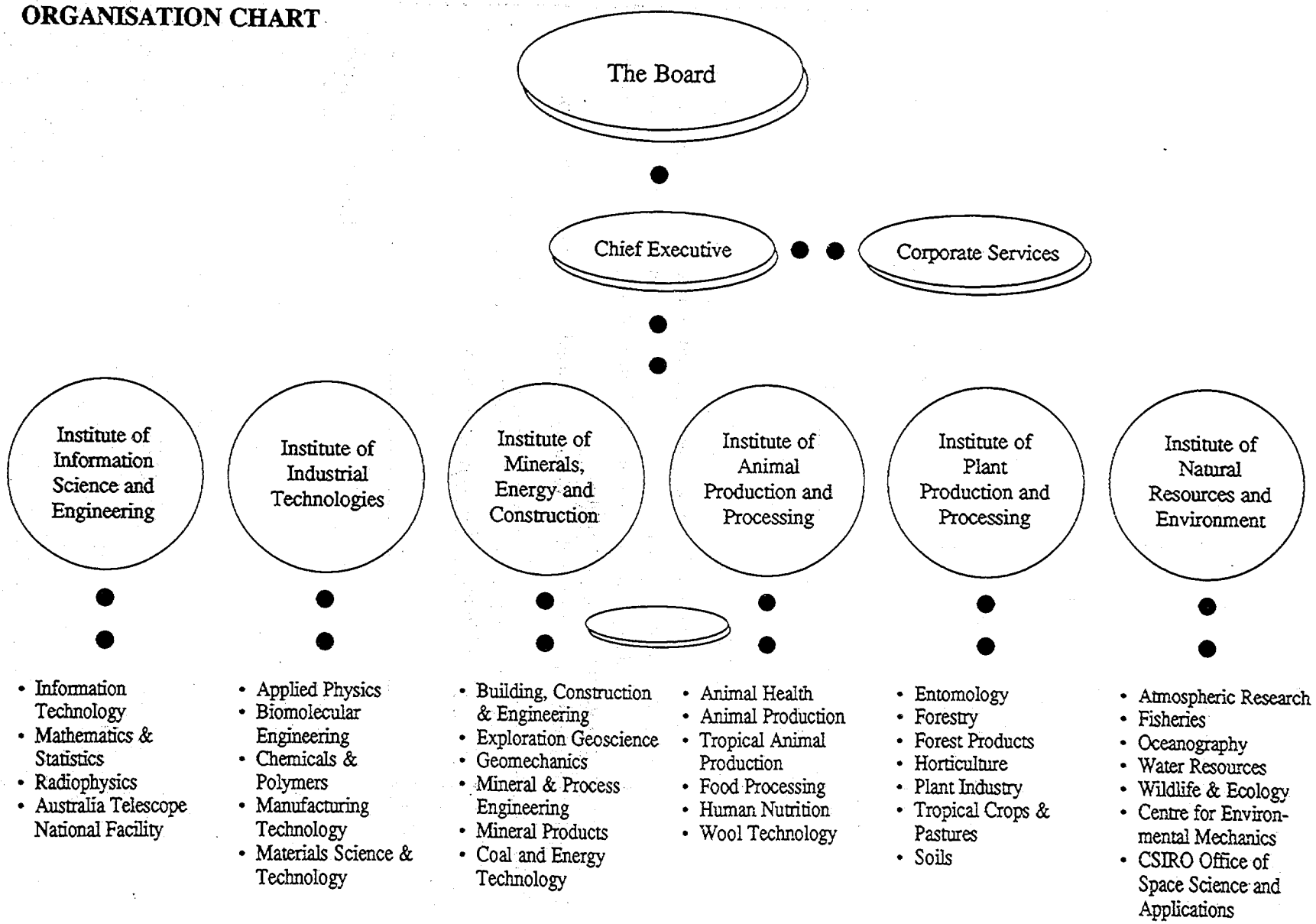
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Commonwealth Scientific and Industrial Research Organization (CSIRO)</td><td>Section name :
CSIRO Division of Manufacturing Technology</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. P. M. Robinson, Chief</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (03) 662-7700
Facsimile : (03) 662-7851
Telex :</td></tr>
<tr><td>Mailing address :
Locked Bag 9 Preston, Victoria 3072, Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 31
Supporting professionals : 31
Technicians : 31
Others : 16
Total : 109</td><td>Founding year :
1980</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division's objectives are to develop new and improved products, processes, and materials to improve the competitiveness of the Australian metals and related engineering industries (particularly those which are export-oriented); and to develop integrated manufacturing technologies and derived products to improve the productivity of all manufacturing industries. Principal areas of research interest include arc techniques, integrated manufacture, and materials engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2">Findings are published in primary journals, as research reports and proceedings, and as commercial-confidential reports.</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : Division of Materials Science and Technology
	Parent organization name :	Director or Office name : Dr. M. J. Murray, Chief
Address information	Country name : Australia	Telephone : (03) 542-2777 Facsimile : (03) 544-1128 Telex : 32945
	Mailing address : Privade Bag 33 Rosebank MDC Clayton, Victoria 3169, Australia	
Organization description	Number of people Research professionals : 90 Support professionals : Technicians : 50 Others : 23 Total : 163	Founding year : Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division's objective is to assist Australian industry by developing new and improved materials, processes, and instruments. Research focuses on the properties, behavior, and utilization of industrial materials (metals, alloys, refractory oxides, ceramics, polymers, and composites).	
Research activities	Findings are published in primary journals, and as research reports, proceedings, and monographs.	
Publications	· Biennial Report.	
Additional information		

Category : Material

ORGANISATION CHART



Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : CSIRO Office of Space Science and Applications
	Parent organization name :	Director or Office name : Dr.B.Embleton Head
Address information	Country name : Australia	Telephone : (61) 6 279 0811 Facsimile : (61) 6 279 0812 Telex :
	Mailing address : P.O. Box 3023, Canberra, ACT 2601, Australia	
Organization description	Number of people Research professionals : 5 Supporting professionals : Technicians : Others : 6 Total : 11	Founding year : 1984
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	CSIRO OSSA develops and implements policy and planning and allocates special funds for a space research and development program aimed at improving Australia's space science and applications industry. Areas of interest include national and international space projects, remote sensing, and communications.	
Research activities	Findings are published in primary journals and as research reports.	
Publications	· Space Industry News (six times per year, in English). · COSSA Publications (Mirograph) series	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Commonwealth Scientific and Industrial Research Organization (CSIRO)</td><td>Section name :
Division of Mathematics and Statistics</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. R. L. Sandland, Chief</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (02) 887-8103
Facsimile : (02) 887-8268
Telex : 170493</td></tr>
<tr><td>Mailing address :
P.O. Box 93 North Ryde, NSW 2113, Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 28
Supporting professionals : 20
Technician : 1
Others : 13
Total : 62</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division conducts research in applied mathematics, focusing on computational fluid dynamics and process modelling, and in statistics, focusing on quality improvement, statistical modelling, computationally intenstive methods, signal and image analysis, graphics and statistical computing. Research is aimed at present and future needs of Australian industry and the Australian community.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published in primary journals, research reports, proceedings, and monographs.</td></tr>
<tr><td>Publications</td><td colspan="2">· Division of Mathematics and Statistics Research Report (bimonthly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : CSIRO Division of Information Technology
	Parent organization name :	Director or Office name : Dr. John F. O'Callaghan, Chief
Address information	Country name : Australia	
	Mailing address : P.O. Box 1599 Macquarie CentreNorth Ryde, NSW 2113, Australia	Telephone : (02) 887-9307 Facsimile : (02) 888-7787 Telex : 73831
Organization description	Number of people Research professionals : 53 Supporting professionals : 17 Technicians. : 4 Total : 74	Founding year : 1985
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Knowledge-based systems engineering, high-performance computing, and spatial information systems.	
Research activities	Findings are published in primary journals, proceedings, and technical reports.	
Publications	· Research Report (biennially, in English).	
Additional information		

Category : Others

Organization name	Institute name : Commonwealth Scientific and Industrial Research Organization (CSIRO)	Section name : Division of Water Resources
	Parent organization name :	Director or Office name : Dr. G. B. Allison, Chief
Address information	Country name : Australia	Telephone : (09) 387-0200 Facsimile : (09) 383-7208 Telex : 92178
	Mailing address : Private Bag PO Wembley, Western Australia 6014, Australia	
Organization description	Number of people Research professionals : 2500 Support professionals : Technicians : Others : Total : 240	Founding year : 1987
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division's objective is to develop new or improved practices for the definition, use, and management of Australia's water resources, including maintenance of the quantity and quality of urban, rural, and industrial water supplies.	
Research activities	Findings are published in primary journals, and as research reports, proceedings, and monographs.	
Publications	· Biennial Research Report; · Technical Memoranda series; · Divisional Report series; · Water Resources series.	
Additional information		

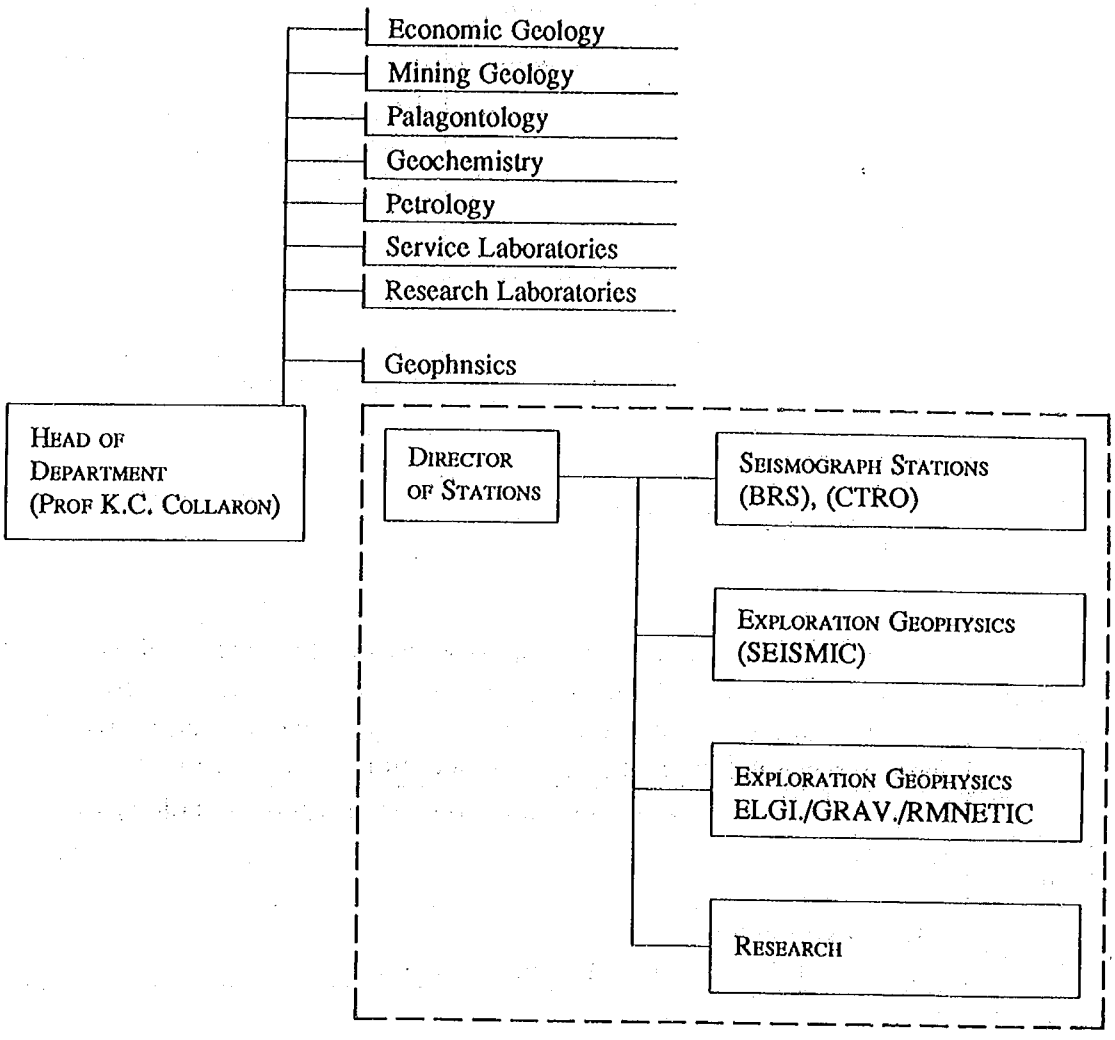
Category : Planning

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Department of Earth Sciences</td><td>Section name :
(1)Charters Towers Australia Modified Seismic Research Observatory (CTAO)
(2)Seismograph Station (BRS)</td></tr>
<tr><td>Parent organization name :
University of Queensland</td><td>Director or Office name :
Dr. S.J. Hearn</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : +61 7365 3197
Facsimile : +61 7365 1277
Telex : AA 40315 (UNIVQLD)
Email:
gmlynam@uqvax.cc.uq.oz.au</td></tr>
<tr><td>Mailing address :
Dept. of Earth Sciences
The University of Queensland
St. Lucia Brisbane,
Queensland 4072,
Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professional : 1
Supporting professional : 1
Technicians : 2
Others : 2 (part-time)
Total : 6</td><td>Founding year :
1937</td></tr>
<tr><td>Other Organization Information (Budget etc) : $A50,000</td></tr>
<tr><td colspan="2">Organization Chart : As attached</td></tr>
<tr><td>Research area</td><td colspan="2">Regional seismology, earthquake engineering, and seismological risk, with emphasis on data collection and analysis.International modem access to IRIS station (CTAO). Continuous 1st order magnetic station at (CTAO).</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published in journals, government reports, and departmental papers. Meetings/Educational Activities: Holds annual conferences on earthquake engineering for engineers, architects, local government, emergency services, and insurance companies.</td></tr>
<tr><td>Publications</td><td colspan="2">(Incomplete) as attached</td></tr>
<tr><td>Additional information</td><td colspan="2">Seismological observatories located at Brisbane & Charters Towers.
Geophysical data gathered on acooperative and contractual basis.
Exchange students scheme exists.
Exchange Scientist/Technicial Scheme - through the Australian Government.</td></tr>
</table>

Category : Others

Organization Chart

Seismogrph Stations Section
Department of Earth Sciences
University of Queensland



<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Forestry Commission of N.S.W., Wood Technology and Forest Research Division</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Forestry Commission of N.S.W.</td><td>Director or Office name :
Dr. John Turner, Chief</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : 872-0111
Facsimile : 871-6941
Telex :</td></tr>
<tr><td>Mailing address :
P.O. Box 100 Beecroft, NSW 2119, Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 39
Supporting professionals : 5
Technicians : 40
Others : 23
Total : 107</td><td>Founding year :
1936</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division carries out field and laboratory research in the areas of: silviculture; tree breeding; soils and nutrition; hydrology; fire, wildlife, and forest ecology; pathology; entomology; forest conversion engineering; wood science, preservation, and seasoning; and timber engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds seminars regularly and offers courses in wood technology for industry.</td></tr>
<tr><td>Publications</td><td colspan="2">· Research Papers;
· Technical Papers (all on a regular basis)</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Agriculture

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Antarctic and Southern Ocean Studies (IASOS)</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
University of Tasmania</td><td>Director or Office name :
Prof. G. Paltridge, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : 202971
Facsimile : 202973
Telex :</td></tr>
<tr><td>Mailing address :
Isles Rd., Indooroopilly Brisbane, Queensland 4068, Australia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
Research professionals : 6
Supporting professionals : 1
Technicians :
Others :
Total : 7</td><td>Founding year :
1988</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Polar and oceanic research with special emphasis on Antarctica and southern oceans, including law, policy, environmental management, and natural and physical sciences.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published in journals, research reports, and working papers.
Meetings/Educational Activities: Conducts regular seminars and occasional conferences.</td></tr>
<tr><td>Publications</td><td colspan="2">· IASOS Newsletter; Working Paper Series.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

Organization name	Institute name : James Cook Cyclone Structural Testing Station	Section name :
	Parent organization name : James Cook University	Director or Office name : Mr. G. F. Reardon, Technical Director
Address information	Country name : Australia	Telephone : (77) 81-4754 Facsimile : (77) 75-1184 Telex :
	Mailing address : James Cook University Townsville, Queensland 4811, Australia	
Organization description	Number of people Research professionals : 4 Supporting professionals : Technicians : 2 Others : Total : 6	Founding year : 1977
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Station's industrial research and testing program includes studies on the effects of wind on low-rise buildings.	
Research activities	Findings are published in primary journals, and as research report and proceedings.	
Publications	· Technical Report (5 times per year).	
Additional information		

Category : Structure

Organization name	Institute name : Julius Kruttschnitt Mineral Research Centre	Section name :
	Parent organization name : University of Queensland	Director or Office name : DR D.J.Mckee Director
Address information	Country name : Australia	Telephone : (7)365 5888 Facsimile : (7) 365 5999 Telex : 40315
	Mailing address : Isles Rd., Indooroopilly Brisbane, Queensland 4068, Australia	
Organization description	Number of people Research professionals : 36 Supporting professionals : 40 Technicians : 2 Others : 12 Total : 90	Founding year : 1971
		Other Organization Information (Budget etc) : $4.3m
	Organization Chart :	
Research area	Centre's research and development program is concerned with the optimization of rock breakage by blasting and mineral and coal processing.	
Research activities	Centre offers masters and doctoral degrees in mining and mineral processing.	
Publications	· in primary journals, · as research reports and proceedings, Annual Report	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Materials Research Laboratory (MRL)</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Defence Science and Technology Organisation (DSTO)</td><td>Director or Office name :
Wynford Connick, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Australia</td><td rowspan="2">Telephone : (03) 319-3251
Facsimile : (03) 318-4536
Telex : 35230</td></tr>
<tr><td>Mailing address :
P.O. Box 50 Melbourne, Victoria 3032, Australia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 91
Supporting professional : 154
Technicians : 140
Others : 247
Total : 632</td><td>Founding year :
1910</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Laboratory conducts research and development on ships and defense materials. Principal areas of research interest include organic and physical chemistry, physics, metallurgy, explosive materials and ballistics, protection of personnel and equipment, and underwater events.</td></tr>
<tr><td>Research activities</td><td colspan="2">Findings are published in primary journals.</td></tr>
<tr><td>Publications</td><td colspan="2">· Research Reports (irregularly);
· Technical Reports (irregularly);
· MR. L Structures and Information (annually);
· Staff & Staff Achievements (annually);
· Papers & Reports (annually);
· Research Highlights (annually).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

Organization name	Institute name : Research School of Physical Sciences and Engineering	Section name :
	Parent organization name :	Director or Office name : Prof. Erich Weigold, Director
Address information	Country name : Australia Mailing address : Australian National University Canberra, ACT 0200, Australia	Telephone : (06) 2490000 Facsimile : (06) 2491884 Telex :
Organization description	Number of people Academics : 108 Students : 84 Technicians : 97 Others : 41 Total : 330	Founding year : 1947 Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	School carries out basic research in selected branches of the mathematical, physical, and engineering sciences, including: applied mathematics, atomic and molecular physics, engineering physics, nuclear physics, plasma physics, systems engineering, theoretical physics, laser physics, electronic materials engineering, and computer science.	
Research activities	Sponsors the Theoretical Physics Summer School each January for postgraduate students and professional scientists	
Publications	· Annual Report. · in primary journals and in School's Advance (quarterly).	
Additional information		

Category : Material

RESEARCH SCHOOL OF PHYSICAL SCIENCES AND ENGINEERING
DIRECTOR - ERICH WEIGOLD

GENERAL PHYSICS DIVISION

- Applied Mathematics
  Head - Prof. Barry Ninham
- Atomic and Molecular Physics Laboratories
  Head - Dr Malcolm Elford
- Laser Physics Centre
  Head - Prof. Barry Luther-Davies
- Optical Sciences Centre
  Head - Prof. Allan Snyder
- Plasma Research Laboratory
  Head - Prof. Sydney Hamberger
- Nuclear Physics
  Head - Prof.George Dracoulis
- Department of Theoretical Physics
  Head - Dr Brian Robson

ENGINEERING DIVISION

- Computer Sciences Laboratory
  Head - Prof. Richard Brent
- Electronic Materials Engineering
  Head - Prof. Jim Williams
- Department of Systems Engineering
  Head - Prof. John Moore

- Energy Research Centre
  Prof. Stephen Kaneff

Organization name	Institute name : Telecom Australia Research Laboratories	Section name :
	Parent organization name : Telecom Australia	Director or Office name : Harry S. Wragge, Executive General Manager
Address information	Country name : Australia	Telephone : 541-6444 Facsimile : (03) 543-4127 Telex : AA 33999
	Mailing address : 770 Blackburn Rd. Clayton, Victoria 3168, Australia	
Organization description	Number of people Research professionals : 200 Supportion professionals : 20 Technicians : 200 Others : 110 Total : 530	Founding year : 1923
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Laboratories conduct basic and applied research in the natural sciences, communications and technology, engineering, social sciences, and developing technologies. Laboratories also promote and support research, development, and postgraduate training in telecommunications.	
Research activities	Findings are published in primary journals, and as research reports and proceedings.	
Publications	· Annual Review of Activities; · Research Quarterly; · Research Laboratories Reports.	
Additional information		

Category : Others

ABSTRACT

OF

INSTITUTE

Bangladesh

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Bangladesh Academy for Rural Development</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Rural Development and Cooperative Division of the Ministry for Local Government,</td><td>Director or Office name :
Hasbat Abdul Hye, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Bangladesh</td><td rowspan="2">Telephone:(081) 6102
Facsimile :
Telex :</td></tr>
<tr><td>Mailing address :
Comilla, Bangladesh</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals : 21
supportion professionals : 29
Technicians:21
Others:269
Total : 340</td><td>Founding year :
1959</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">BARD was established to train governmental officials and representatives of village organizations on subjects related to rural development. BARD conducts research and pilot experiments in order to evolve models suitable for rural development, and carries out socioeconomic studies, long-term village studies, and evaluative studies on rural development programs. Principal areas of research interest include public administration, rural economics, rural business management, rural sociology, social psychology, communication and community organization, agricultural extension, agronomy, agricultural engineering, animal husbandry, fishery, rural education, women's education, health and nutrition, and youth work.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds national and international seminars, conferences and workshops on rural development on a monthly basis for professionals in the rural development field</td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of BARD (biannually);
· BARD Annual Report.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

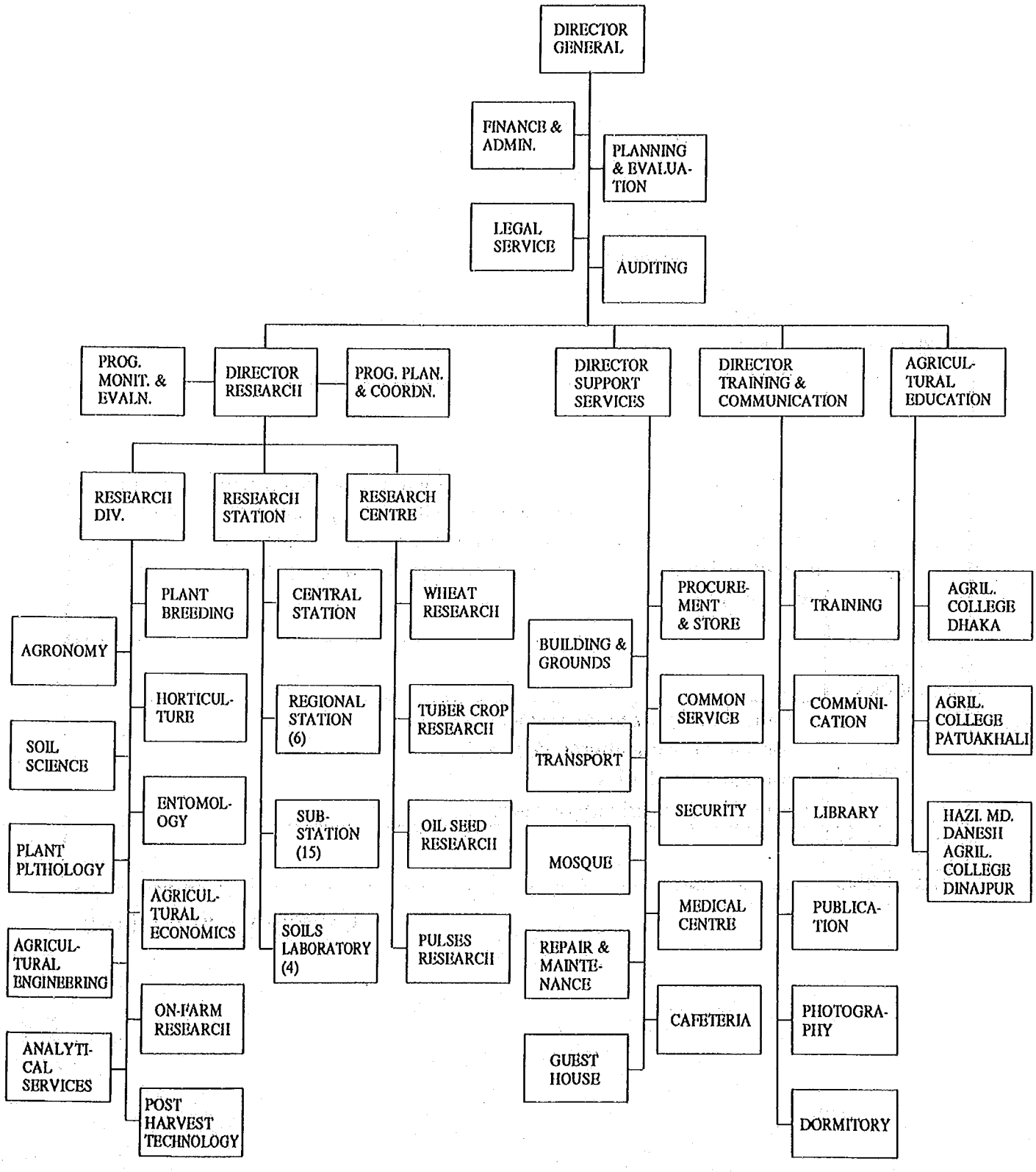
Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Bangladesh Agricultural Research Institute</td><td>Section name :
BARI (Head quarter)</td></tr>
<tr><td>Parent organization name :
Directorate of Agriculture (Research and Education)
Ministry of Agriculture</td><td>Director or Office name :
Dr. Mohammad Hossain Mondal,
Director-General</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Bangladesh</td><td rowspan="2">Telephone : (02) 401013
0681-2091
0681-2063
0681-2529
Facsimile :
Telex : 642401 SHER BJ</td></tr>
<tr><td>Mailing address :
Joydebpur,Gazipur-1701,
Bangladesh</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:728
supportion professionals:68
Technicians : 500
Others:1601
Total : 2897</td><td>Founding year :
4 August 1976</td></tr>
<tr><td>Other Organization Information (Budget etc) :
4250.00 (Taka in lakh)
1991-92 Fiscal year.</td></tr>
<tr><td colspan="2">Organization Chart :
Attached.</td></tr>
<tr><td>Research area</td><td colspan="2">Institute's research and teaching program includes studies in plant breeding, plant pathology, agricultural engineering, soil science, entomology, agronomy, agricultural economics, horticulture, and postharvest technology and farming system research.</td></tr>
<tr><td>Research activities</td><td colspan="2">Weekly agricultural seminars are held for scientists.</td></tr>
<tr><td>Publications</td><td colspan="2">· Bangladesh Journal of Agricultural Research (half yearly research journal) in Enhlish
· BARI Sangbad (Newsletter in Bengali)
· BARI Annual Report (in English)</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Agricalture

BANGLADESH AGRICULTURAL RESEARCH INSTITUTE
JOYDEBPUR, GAZIPUR

ORGANOGRAM



Bangladesh - 3

Organization name	Institute name : Bangladesh Agricultural University Research System	Section name :
	Parent organization name :	Director or Office name : Prof. Dr. Shah M. Farouk, Director
Address information	Country name : Bangladesh	Telephone:5695 Facsimile : Telex :
	Mailing address : Mymensingh 2202, Bangladesh	
Organization description	Number of people research professionals : supportion professionals : Technicians: Others: Total :	Founding year : 1984
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	BAURES monitors and evaluates the agricultural research activities of the staff of Bangladesh Agricultural University. Principal areas of research interest include farm crops, farming systems, agricultural economics, agricultural engineering, livestock, fisheries, veterinary science, and animal husbandry.	
Research activities		
Publications	· Journal of Agricultural Science; · Journal of Agricultural Economics; · Journal of Fisheries; · Journal of Veterinary Science.	
Additional information		

Category : Agricalture

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Bangladesh Standards and Testing Institution</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
MR. S. F. A. Saleheen</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Bangladesh</td><td rowspan="2">Telephone: 88 14 62
Facsimile :
Telex : BESTEYE</td></tr>
<tr><td>Mailing address :
116-A, Tejgaon Industrial Area
Dacca 1208, Bangladesh</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals : 87
supportion professionals : 42
Technicians:
Others:119
Total : 248</td><td>Founding year :
1985.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) to formulate national standards specifications in Bangladesh through testing, analysis, and evaluation of the physical and chemical properties of industrial goods and indigenous raw materials; 2) to establish well-equipped testing laboratories; 3) to ensure effective quality control through testing and implementation of the Certification Marks System; and 4) to establish metrology laboratories throughout Bangladesh to implement the legal system of weights and measures and to render metrological services.</td></tr>
<tr><td>Research activities</td><td colspan="2">Formulates standards of commodities, processes/systems,codes of practice,Controls quality of products through testing of locally producccces consumer products and produce for the local market and for export through issuance of Certification Marks Licences.</td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report
· Half-Yearly Bulletin
· Standard specificationss
· Technical articles and special brochures</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Bangladesh - 5

Organization name	Institute name : Bangladesh Industrial Technical Assistance Centre	Section name :
	Parent organization name : the Ministry of Industries,	Director or Office name : A.H.M. Enayet Hossain, Director-General
Address information	Country name : Bangladesh	Telephone:(02) 601272 Facsimile : Telex :
	Mailing address : Dacca 1208, Bangladesh	
Organization description	Number of people research professionals : 34 supportion professionals : 57 Technicians:326 Others:183 Total : 600	Founding year : 1962.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	BITAC is a research, training, and advisory center concerned with the improvement of industrial productivity in Bangladesh. Activities include: tool, equipment, and process development; design, development, and manufacture of import substitution spare parts; advisory and consultancy services for the metalworking industry; consultancy, advisory, and testing services including process and product development and quality control in the plastics industry; and training and manpower development. BITAC is designated as the focal point for the Asia & Pacific Centre for Transfer of Technology (APCTT).	
Research activities	Organizes seminars, symposia, and group discussions on industrial productivity.	
Publications		
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Bangladesh Forest Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. A. B. M. Salehuddin, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Bangladesh</td><td rowspan="2">Telephone:(031) 212164
Faosimile :
Telex :</td></tr>
<tr><td>Mailing address :
Chittagong, Bangladesh</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals : 59
supportion professionals : 137
Technicians:141
Others:264
Total : 601</td><td>Founding year :
1954.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute conducts basic and applied research in forest products and management. Areas of study include woodworking and timber engineering, veneer and composite wood products, seasoning and timber physics, pulp and paper, wood preservation, forest chemistry and botany, silviculture, forest economics, soil science, and forest protection.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Bano Biggyan Patrika (semiannually).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Agricalture

ABSTRACT

OF

INSTITUTE

China

Organization name	Institute name : Anhui Machinery Scientific Research Institute	Section name :
	Parent organization name :	Director or Office name : Prof. Qiu Guozhang, Director
Address information	Country name : China	
	Mailing address : 61 Jinzhai Road Hefei, Anhui, People's Republic of China	Telephone : 333404 Facsimile : Telex :
Organization description	Number of people research professionals:100 supportion professionals : 40 Technicians : 60 Others : 45 Total : 245	Founding year : 1960.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's research program is concerned with machinery design, electrical machinery development, wearproof materials, and new technology of metal casting and heat treatment.	
Research activities		
Publications	· Anhui Machine (quarterly magazine, in Chinese).	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Beijing Central Engineering and Research Institute for Nonferrous Metallurgical Industries</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Yu Mingshun, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (1) 366090
Facsimile : 3263662
Telex : 22194</td></tr>
<tr><td>Mailing address :
12 Fu-Xing Lu Beijing,
People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionalss:1700
supportion professionals :
Technicians :
Others : 400
Total : 2100</td><td>Founding year :
1953.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute carries out research and development (including engineering design) for the nonferrous metals industry, including studies in mining, mineral processing, and extractive metallurgy. Activities include engineering consultation, planning, feasibility study, technical and economic evaluation, new technology development, upgrading of existing enterprises,equipment procurement and installation, personnel training, and trial production. Projects have included the design of metallurgical complexes, mines, concentrators, smelters and refineries, acid-making plants with flue gases, civil engineering design, cement plants design, and computer center servicing.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Beijing Environment Sanitation Scientific Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 482277
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Beijing 10028, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:68
supportion professionals : 21
Technicians : 2
Others : 86
Total : 177</td><td>Founding year :
1979.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute's research program is concerned with municipal solid waste and night soil disposal techniques, machinery for municipal sanitation and public health facilities, municipal environmental sanitation, and chemical and biological examination and analysis of municipal waste.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Reports on Environmental Sanitation in the City (bi-monthly, in Chinese);
· Magazine of the E. S. of the City.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Environment

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Beijing Institute of Packaging and Design</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Ma Shou Ping, General Manager</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 441747
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
4 Songzhuyuan Bei Xiang^Shatan
Beijing, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:4
supportion professionals : 13
Technicians : 23
Others :
Total : 40</td><td>Founding year :
1961</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute undertakes research in design and decoration engineering works, including studies in interior and exterior building desig product modelling and sales advertising, sample book design,exhibition design, and color photography.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Beijing Research Institute of Coal Mining</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (1) 464931
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Beijing 100013, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionalss:
supportion professionals :
Technicians :
Others : Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Areas of study include rock pressure, mine support, and coal mining under buildings, bodies of water, and railways.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

Organization name	Institute name : Beijing Solar Energy Research Institute	Section name :
	Parent organization name :	Director or Office name : Jiang Xi Nian, Director
Address information	Country name : China	
	Mailing address : Huoyuan Rd.^Haidian District Beijing, People's Republic of China	Telephone : (1) 2018887 Facsimile : (1) 2012880 Telex :
Organization description	Number of people research professionals:135 supportion professionals : Technicians : Others : Total : 135	Founding year : 1979
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute is concerned with the research and development of solar energy application, including the popularization of solar technologies and the training of technical personnel. Areas of research interest include solar thermal engineering, solar materials, solar instrumentation, and energy conservation products.	
Research activities		
Publications		
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Beijing Strong Motion Observation Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Peng Ke-Zhong, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 283455
Facsimile : (1) 2566099
Telex : 222351 SSB CN</td></tr>
<tr><td>Mailing address :
Beijing 100080, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:6
supportion professionals2 :
Technicians : 6
Others : 1
Total : 15</td><td>Founding year :
1966.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Strong motion observation, near field seismology, earthquake engineering, vibration measurements, and vibration isolation techniques.</td></tr>
<tr><td>Research activities</td><td colspan="2">Sponsors National Workshop on Strong-Motion Measurement of China for Chinese earthquake engineers and seismologists (biennially in September or October).</td></tr>
<tr><td>Publications</td><td colspan="2">· Report on Observation and Research of Beijing Strong-Motion Observation Center (irregularly, about six to ten times per year in Chinese and English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Disaster

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Central Research Institute of Building and Construction</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mr. Liu Henian, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 2029322
Facsimile : 2011361
Telex :</td></tr>
<tr><td>Mailing address :
Beijing 100088,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:224
supportion professionals : 480
Technicians : 300
Others :
Total : 1004</td><td>Founding year :
1959.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Industrial construction and environmental protection.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Industrial Construction (monthly);
· Environmental Engineering (monthly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

Organization name	Institute name : China Academy of Railway Sciences	Section name :
	Parent organization name :	Director or Office name : Prof. Dr. Qingguo Cheng, President
Address information	Country name : China	
	Mailing address : Beijing 100081, People's Republic of China	Telephone : 89 3278 Facsimile : 8317379 Telex :
Organization description	Number of people research professionals : 2610 supportion professionals : Technicians : Others : 1390 Total : 4000	Founding year : 1950.
		Other Organization Information (Budgetetc) :
	Organization Chart :	
Research area	studies in technical and economic policies, transportation and operation management, locomotives and rolling stock, railway engineering, signalling and communications, standards and metrology, and product inspection and testing.	
Research activities	Offers continuing engineering education and postgraduate programs.	
Publications	· China Railway Science.	
Additional information		

Category : Transportation

Organization name	Institute name : China Automotive Technology and Research Center	Section name :
	Parent organization name :	Director or Office name : Zhu Dezhao, Director, Senior Engineer
Address information	Country name : China	
	Mailing address : Tianjin, Liaoning, People's Republic of China	Telephone : 473100 Facsimile : 473541 Telex :
Organization description	Number of people research professionals:193 supportion professionals : 168 Technicians : Others : 101 Total : 462	Founding year : 1985
		Other Organization Information (Budgetetc) :
	Organization Chart :	
Research area	Center conducts comprehensive research in automotive engineering, including auto product and design, testing and development, plant project, standard formulation, technical information collection, and economic law and leglisation research.	
Research activities		
Publications	· World Automobile Technology (bimonthly, in Chinese); · Motorcycle Technology (bimonthly, in Chinese); · Automotive Industry Yearbook (Chinese); · China Auto (English); · Auto Figures and Facts (Chinese); · China Auto Industry (annually, in English-Chinese).	
Additional information		

Category : Transportation

Organization name	Institute name : China Electronics Engineering Design Institute	Section name :
	Parent organization name :	Director or Office name : Yan De Long, Director
Address information	Country name : China	Telephone : 82/2233-5680 Facsimile : Telex :
	Mailing address : Wan Su Lu 27 Hao Beijing, People's Republic of China	
Organization description	Number of people research professionals:868 supportion professionals : Technicians : Others : Total : 868	Founding year :
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Engineering design, including design of civilian buildings and industrial and residential planning. Specializes in the design of high precision processing and manufacturing equipment, and preparation and delivery of hyperclean water and hyperpure gases.	
Research activities		
Publications	· Cleanroom Technology.	
Additional information		

Category : Planning

Organization name	Institute name : China National Garments Research and Designing Center	Section name :
	Parent organization name :	Director or Office name : Zhu Bing Chen, Director
Address information	Country name : China	
	Mailing address : 100 Xiyuanzi, Chongwen District Beijing, People's Republic of China	Telephone : 751673 Facsimile : Telex :
Organization description	Number of people research professionals:200 supportion professionals : Technicians : Others : Total : 200	Founding year : 1983.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Center conducts research in garment technology including materials, colors, fashions, decoration, history of garments, body engineering, and development of the garment industry.	
Research activities		
Publications	· China Garments.	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
China Northeast Building Design Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mu Yizheng, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 360290
Facsimile : 024-361440
Telex : 804013 CNBDI</td></tr>
<tr><td>Mailing address :
No. 65, Guangrong St. Shenyang, Liaoning, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:857
supportion professionals :
Technicians :
Others :
Total : 857</td><td>Founding year :
1954.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute is concerned with the design of industrial buildings, public buildings, and houses. Interests include: urban planning, architecture, water supply and drainage, electrical service, power supply, building materials technology, mechanical equipment, and site surveying.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Concrete and Reinforced Concrete and Silicate Building Products, (bimonthly, in Chinese).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Planning

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Changchun Automobile
Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Xu Xingyao, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 73908
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
No. 17, Chuangyie St.
Changchun, Jilin,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:1064
supportion professionals :
Technicians :
Others :
Total : 1064</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute is engaged in designing, trial producing, and testing automobiles and trucks.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Transportation

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Changsha Design and Research Institute of Non-Ferrous Metallurgy</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Shen Jia Zhi, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 26296
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
No. 101 Wen Yi Rd. Changsha,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:1,287
supportion professionals :
Technicians :
Others :
Total : :1,287</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Geology, mining, mineral processing, gold extraction, heavy metal metallurgy, light metal metallutgy, rare metal metallurgy, cemented carbide processing, light industry, dust collection, acid making, environmental protection, system engineering, building materials, architectural engineering, general layout and transportation, power supply, power drive, communication, instrumentation, water supply and drainage, heat engineering, heating and ventilation, and refrigeration and air conditioning.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Engineering Design & Research;
· Rare Metal & Cemented Carbide.</td></tr>
<tr><td>Additional information</td><td colspan="2">CAD computer systems.</td></tr>
</table>

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Chinese Academy of Agricultural Engineering, Research, and Planning</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Ministry of Agriculture.</td><td>Director or Office name :
Dr. Tao Ding-lai, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (1) 595355
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Agricultural Exhibition Center Rd. South
Beijing, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionalss:120
supportion professionals : 75
Technicians : 65
Others : 101
Total : 361</td><td>Founding year :
1979.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Academy is concerned with research, design and technical application of agricultural engineering. Principal fields of research interest include: land reclamation, rural energy, rural environment and construction, animal husbandry engineering, agricultural products processing, agricultural system engineering, remote sensing and computer utilization in agriculture, and agricultural economics.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds China Agricultural Engineering Seminars and professionals Committee Seminars.</td></tr>
<tr><td>Publications</td><td colspan="2">· Agricultural Engineering Journal (quarterly);
· Rural Practical Engineering Technique.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Chinese Academy of Geological Sciences</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Ministry of Geology and Mineral Resources</td><td>Director or Office name :
Chen Yuchuan, President</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 892630
Facsimile :
Telex : 222721</td></tr>
<tr><td>Mailing address :
Beijing 100037, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionalss:3200
supportion professionals : 1100
Technicians : 600
Others : 1900
Total : 6800</td><td>Founding year :
1956.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Academy carries out comprehensive research in the geosciences. Principal fields of research interest include regional geology, geotectonics, stratigraphy, paleontology, petrography, mineralogy, ore-forming mechanisms, geochemistry, geophysics, hydrogeology, engineering geology, and geomechanics.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· CAGS Bulletin (irregularly, in Chinese with English abstracts);
· Acta Geologia Sinica, Geological Review;
· Annual Report (available in English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

Organization name	Institute name : Chongqing Highway Research Institute	Section name :
	Parent organization name : the Ministry of Commynicatios	Director or Office name : Prof. Yu Shu-fan, Director
Address information	Country name : China	
	Mailing address : Nanan District Chongqing, Sichuan, People's Republic of China	Telephone : 482572 Facsimile : Telex : 8305
Organization description	Number of people research professionalss:254 supportion professionals : 170 Technicians:84 others:120 total:628	Founding year : 1965.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute carries out research and development in the field of highway transportation. Principal areas of interest are: 1) highway engineering, involving research and design related to subgrade-pavement engineering of arterial highways and freeways (modified bitumen and bitumen mixtures for roads, use of industrial waste residues, soft sub-soil treatment, and highway alignment), and traffic and tunnel engineering; 2) bridge engineering, including studies of bridge structure (prestressed concrete and reinforced concrete bridges), computation and design of highway and urban bridges, and mechanical property measurements and stress analyses of bridges; 3) automotive operations, including tire retread technology and the development of new automotive products; 4) coach bus technology, including bus structure, comfort and s afety, and coach bus standards; and 5) computer application technology, involving the development of computer-aided networks to improve transportation, application of microcomputer technology on instruments and procedure controls, computer data processing, and analysis.	
Research activities		
Publications	· Journal of Chongqing Highway Research (annually, in Chinese).	
Additional information		

Category : Transportation

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Computer Science and Engineering Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Xi'an Jiaotong University</td><td>Director or Office name :
Prof. Shi Hong-bao, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (29) 332911
Facsimile : 335471
Telex : 70123</td></tr>
<tr><td>Mailing address :
Xi'an 710049, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionalss:
supportion professionals :
Technicians :
Others : Total :</td><td>Founding year :
1984.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute's research program is concerned with computer networks, intelligent software, computer design, and computer programming language and theory.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Dalian Diesel Locomotive Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Wen Mo Xin, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 116021
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Dalian, Liaoning, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:351
supportion professionals :
Technicians :
Others :
Total : 351</td><td>Founding year :
1922.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1)Design and development of diesel locomotives and diesel engine components, governors, vibration dampers, intercoolers, and turbochargers; 2) diesel injection systems, including fuel pumps and injectors; 3) locomotive cooling systems, including radiators, heat exchangers, and fans; 4) motors, electrical apparatus, and control systems, including constant horsepower excitation; 5) hydraulic transmission units for diesel locomotives and engines, including hydraulic converters, automatic changeovers and bearings, and microcomputer applications on locomotives; 6)software for design, calculation, test control, and data processing; 7) test and measurement techniques and devices for diesel locomotives and engines.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Diesel Locomotive;
· Foreign Diesel Locomotive.</td></tr>
<tr><td>Additional information</td><td colspan="2">Workships for diese locomotibe manfacturing development</td></tr>
</table>

Category : Others

Organization name	Institute name : Electrical Power Construction Research Institute	Section name :
	Parent organization name :	Director or Office name : Du Zen Giang, Director
Address information	Country name : China	
	Mailing address : Liang Xiang Beijing, People's Republic of China	Telephone : 335031-93208 Facsimile : Telex :
Organization description	Number of people research professionals:398 supportion professionals : Technicians : Others : Total : 398	Founding year : 1958.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1)Transmission pole tower structures; 2) conductors and hardware; 3)welding metallography, mechanics, and inspection; 4) thermal power engineering, including coal pulverization, task handling, HP-HT pipe fittings, water treatment, and chemical analysis; 5) civil engineering of power plant building structures, dynamic equipment foundation,hydraulic structures, construction materials, and thermal insulating and refractory materials 6) construction machinery and tools for thermal power and transmission line engineering 7) management information systems.	
Research activities		
Publications	· Electric Power Construction	
Additional information		

Category : Structure

Organization name	Institute name : Engineering Research Center for Information Systems	Section name :
	Parent organization name : Xi'an Jiaotong Unicersity	Director or Office name : Prof. Wang Yi-he, Director
Address information	Country name : China	Telephone : (29) 335011 Facsimile : (29) 335471 Telex : 70123 XJTU CN
	Mailing address : Xi'an 710049, Shaanxi, People's Republic of China	
Organization description	Number of people research professionalss:5 supportion professionals : 10 Technicians : 4 Others : 1 Total : 20	Founding year : 1984.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Center conducts research on new generation information systems, computer and local area networks, computer system architecture, distributed systems and software, management information systems, and office automation.	
Research activities		
Publications		
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
First Design Institute of Navigation Engineering</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Feng Min-liang, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 841845
Facsimile : 841925
Telex : 234109 FDINE CN</td></tr>
<tr><td>Mailing address :
Tianjin 300222, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:126
supportion professionals : 205
Technicians : 211
Others : 338
Total : 880</td><td>Founding year :
1958.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) planning, design, and technical consultation in harbor engineering
2) feasibility studies and analysis of hydrography and meteorology;
3) lighthouse design
4) navigational channel research;
5) ship building.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Harbour Engineering Techniques (quarterly, in Chinese).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Planning

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Fourth Design and Research Institute of Machine-Building and Electronics</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Shen Changming, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 037923310
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Lai Yuan Tianjing Lu, Henan,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:731
supportion professionals :
Technicians :
Others :
Total : 731</td><td>Founding year :
1959</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Geological investigation and surveying for factories and accessory factories in the automobile, tractor, internal combustion engine, farm machinery, light industry, textile, and petroleum industries, and in railroad construction and civil architecture. Also researches material handling, painting engineering, metal heating and fabrication, construction and architecture, enviromental protection, and energy conservation.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Design and Research.</td></tr>
<tr><td>Additional information</td><td colspan="2">Computer center, environmental protection laboratory, constructional test room, and soil test room.</td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Guangxi Applied Physics Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Bei Yao-Wu, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 32221
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Nanning 530003, Guangxi Zhuangzu, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:6
supportion professionals : 19
Technicians :
Others : 39
Total : 54</td><td>Founding year :
1978.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Laser applications, energy, and automation. Specific projects include development of medical laser instruments, laser biological engineering, solar water heaters, boilers and solar drying ovens, microcomputer applications technology, monitoring and remote controlling by microcomputers, microcomputer network and information communication, photoelectricity, electronics, electron machinery, and microwave applications.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Guangxi Research and Design Institute of Architectural Science	Section name :
	Parent organization name :	Director or Office name : Zhang Shu Ding, Director
Address information	Country name : China	
	Mailing address : No. 17, Nan Lin Bei Da Nan Lu Guangxi, People's Republic of China	Telephone : 33331 Facsimile : Telex :
Organization description	Number of people research professionals:109 supportion professionals : Technicians : Others : Total : 109	Founding year : 1958
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute is concerned with developments and applications of new structures, materials, and techniques in the building and construction industry. Areas of research interest include hollow slab building, small concrete block building, sandless concrete building, building coatings, structural reinforcement, pile base testing, concrete strength testing, and safe explosion techniques.	
Research activities		
Publications		
Additional information		

Category : Structure

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Hefei Institute of Intelligent Machines, Academia Sinic</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. Tingjian Fang, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 291136
Facsimile : 291100
Telex :</td></tr>
<tr><td>Mailing address :
Hefei, Anhui, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:68
supportion professionals : 44
Technicians : 48
Others : 40
Total : 200</td><td>Founding year :
1979.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) industrial applications and multisensor systems;
2) pattern recognition, including machine vision and image processing;
3) artifical intelligence including knowledge engineering and expert systems;
4) sensor technology, including sensing elements, transducers, and measurement instruments.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds seminars and conferences on an irregular basis.</td></tr>
<tr><td>Publications</td><td colspan="2">· Pattern Recognition and Artifical Intelligence (quarterly, in Chinese with English abstracts).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Hunan Academy of Agricultural Sciences	Section name :
	Parent organization name :	Director or Office name : Qian Ren, President
Address information	Country name : China	
	Mailing address : Changsha, Hunan, People's Republic of China	Telephone : 48787 Facsimile : Telex :
Organization description	Number of people research professionals:715 supportion professionals : Technicians : Others : Total : 715	Founding year : 1901
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) Evaluation and utilization of agricultural resources 2) crop variety improvement; 3) soil and fertilizer; application of atomic energy in agriculture; 4) plant protection; plant cultivation; 5) biological engineering;6) agricultural economics.	
Research activities		
Publications	· Agricultural Science in Hunnan; · Hybrid Rice.	
Additional information		

Category : Agricalture

Organization name	Institute name : Hunan Hydro and Power Design Institute	Section name :
	Parent organization name : the Hydro and Power Department	Director or Office name : Liu Hong-yun, Director
Address information	Country name : China	
	Mailing address : 154 Laodong Rd. Changsha, People's Republic of China	Telephone : 33011 Facsimile : Telex :
Organization description	Number of people research professionalss:256 supportion professionals : 342 Technicians : 54 Others : Total : 652	Founding year : 1956.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's activities include research, planning and design in the areas of applied hydraulics, construction materials, structure model tests, and power system protection and control.	
Research activities		
Publications		
Additional information		

Category : Hydraulics

Organization name	Institute name : Hubei Mechanical Research Institute	Section name :
	Parent organization name :	Director or Office name : Yun Chengzhi, Director
Address information	Country name : China	
	Mailing address : No. 14, Hong Shan Shi Pai Ling Wuchang, People's Republic of China	Telephone : 872532 Facsimile : Telex :
Organization description	Number of people research professionals:247 supportion professionals : Technicians : Others : Total : 247	Founding year : 1958.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute conducts research on the development and application of electromechanical technology, including casting techniques and equipment, transport techniques and equipment for inland water ports,agricultural machinery, environmental protection machinery, and gas and liquid petroleum filling equipment.	
Research activities		
Publications		
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Computational Mathematics and Applied Mathematics</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. You Zhaoyong, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 332911
Facsimile : 8629335471
Telex : 71023 XJTU CN</td></tr>
<tr><td>Mailing address :
Xi'an 710049, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionalss:20
supportion professionals :
Technicians :
Others : 2
Total : 22</td><td>Founding year :
1985.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Mathematical programming, computational physics and scientific software, nonlinear analysis theory and methods, biological mathematics, and economic mathematics.</td></tr>
<tr><td>Research activities</td><td colspan="2">Sponsors international conferences and symposia.</td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of Engineering Mathematics (three times per year, in English and Chinese).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Table Abstract of Institute

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Engineering Mechanics</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the State Seismological Bureau</td><td>Director or Office name :
Prof. Junfei Xie, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 62901
Facsimile :
Telex : 87051</td></tr>
<tr><td>Mailing address :
9 Xuefu Rd.l Harbin, Heilongjiang,
People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:153
supportion professionals : 157
Technicians : 180
Others : 67
Total : 557</td><td>Founding year :
1954.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) post-earthquake assessment; 2) the nature of strong earthquake motion; 3) engineering seismology; 4) resistance of buildings, bridges, dams, nuclear power plants, and power transmission lines to earthquakes; 5) soil mechanics and geotechnical earthquake engineering; 6) rock mechanics and aseismic design codes; 7) earthquake damage prediction; 8) shock and vibration problems; 9) offshore platform structures; and 10) mechanics of composite materials. Institute also carries out a joint research project on strong earthquake motion array with the United States Geological Survey and the University of Southern California.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds a national conference on earthquake engineering and offers seminars and workshops.</td></tr>
<tr><td>Publications</td><td colspan="2">· Earthquake Engineering and Engineering Vibration (quarterly);
· World Information on Earthquake Engineering (quarterly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Disaster

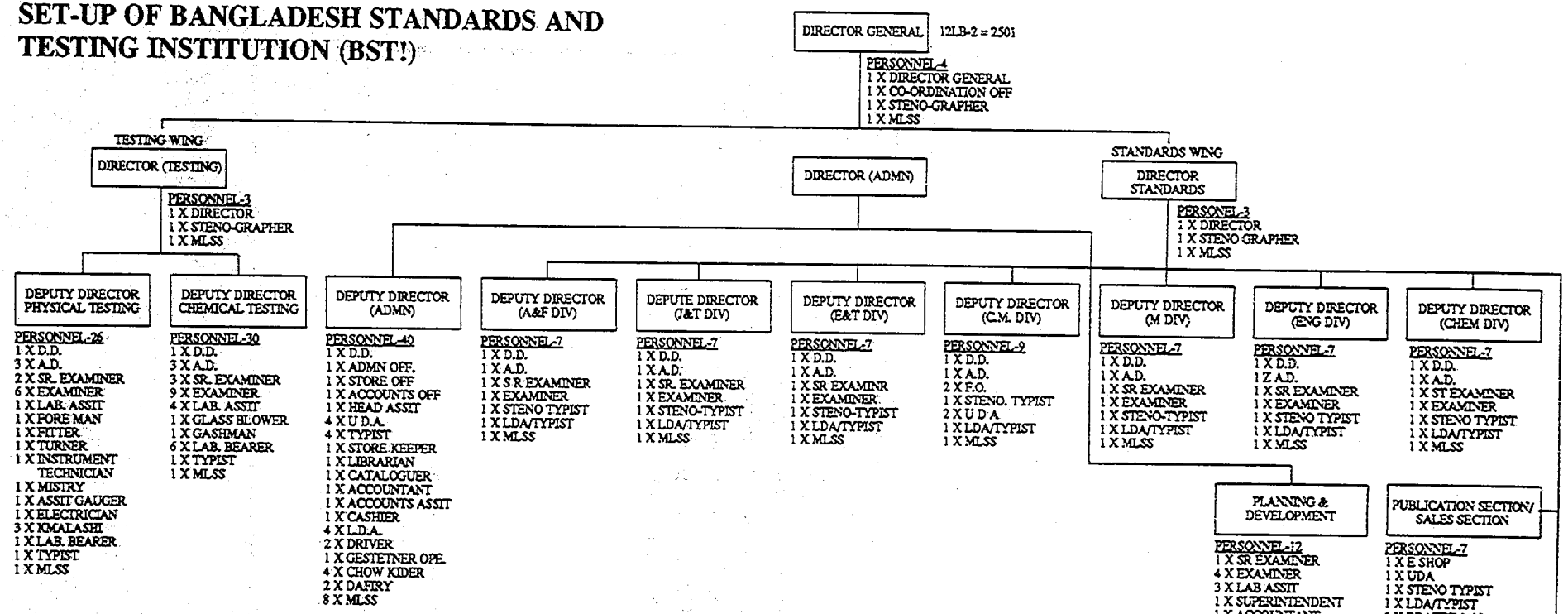
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Engineering Mechanics</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Xi'an jiaotong University</td><td>Director or Office name :
Prof. Shen Yapeng, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 721011
Facsimile : 334716
Telex : 70123</td></tr>
<tr><td>Mailing address :
Xi'an 710049, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:28
supportion professionals : 26
Technicians : 3
Others :
Total : 57</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute carries out research and development on fatigue fracture and damage, composite mechanics, thermo-plasticity an thermo-elasticity, nonlinear oscillation, modelling and indentification of vibration systems, coupled vibration, noise control, and biomechanics.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Applied Mechanics Journal (quarterly, in Chinese with English abstract).</td></tr>
<tr><td>Additional informatin</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name:Institute of Exploration Engineering</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Zuo Ruqiang, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Zhoukoudian Beijing, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:104
supportion professionals :
Technicians :
Others :
Total : 104</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute engages in research on new theories, equipment, technology, and materials of exploration engineering. Areas of interest include diamond drilling bits, drilling chemistry, purification of exhaust gas from internal combustion engines, drilling methods, and rock fragmentation and tunnel engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Exploration Engineering Abroad (quarterly, in Chinese).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

SET-UP OF BANGLADESH STANDARDS AND TESTING INSTITUTION (BSTI)



ABBREVIATION

A&F DIV. AGRICULTURE & FOOD PRODUCTS DIVISION
J&T DIV. JUTE AND TEXTILE DIVISION
E&T DIV. ELECTRO TECHNICAL DIVISION
CM. DIV. CERTIFICATION MARKS DIVISION
M DIV. METROLOGY DIVISION
ENG DIV. ENGINEERING DIVISION
CHEM DIV. CHEMICAL ENGINEERING DIVISION

SUMMARY OF MANPOWER

SL. No.	DESIGNATION	EXISTING	ADDI-TIONED	TOTAL
	CLASS - 1			
1.	DIRECTOR GENERAL	1	—	1
2.	DIRECTOR	3	—	3
3.	DY. DIRECTOR	14	—	14
4.	ASSIT DIRECTOR	19	—	19
5.	EDITOR	1	—	1
6.	COORDINATION OFF	1	—	1
7.	SR. EXAMINER	12	—	12
8.	STORE OFF	1	—	1
	CLASS - 2			
9.	ADMN OFF	1	—	1
10.	ACCOUNTS OFF	1	—	1
11.	FIELD OFF	3	—	3
12.	INSPECTOR	17	—	17
13.	EXAMINER	25	—	25
	NONGAZETTED STAFF			
14.	HEAD ASSIT	5	—	5
15.	SUPERINTENDENT	1	—	1
16.	U D A	7	—	7
17.	STENOGRAPHER	3	—	3
18.	STENO TYPIST	13	—	13
19.	STORE KEEPER	1	—	1
20.	LIBRARIAN	1	—	1
21.	ACCOUNTANT	2	—	2
22.	ACCOUNT ASSIT	1	—	1
23.	CATALOGUER	1	—	1
24.	TYPIST	6	—	6
25.	LDC/TYPIST	4	—	4
26.	LDA/TYPIST	9	—	9
27.	UDC GUM CASHIER	4	—	4
28.	CASHIER	1	—	1
29.	LDA	4	—	4
30.	DRAFTSMAN	2	—	2
31.	TRACER	1	—	1
32.	INSTRUMENT MECHANIC	4	—	4
33.	INSTRUMENT MECHANIC HELPER	4	—	4
34.	INSTRUMENT TECHNICIAN	2	—	2
35.	DRIVER	2	—	2
36.	LAB. ASSIT	8	—	8
37.	TURNER	1	—	1
38.	FITTER	1	—	1
39.	MISTRY	1	—	1
40.	RECORD KEEPER	1	—	1
41.	ELECTRICIAN	1	—	1
42.	GESTET NER OPE.	1	—	1
43.	LAB. BEARER	7	—	7
44.	GLASS BLOWER	1	—	1
45.	GASHMAN	1	—	1
46.	KHALASHI	3	—	3
47.	DAFTRY	2	—	2
48.	FOREMAN	1	—	1
49.	ASSIT CHUGER	1	—	1
50.	CHOWKIDER	4	—	4
51.	MLSS	39	—	39
		250	—	250

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name : Institute of Geology, Academia Sinica</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Wang Suing, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 4014031
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Box 634 Beijing, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others :
Total :</td><td>Founding year :
1951.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Geology, including: 1) late Pleistocene environmental history in middle eastern Xizhang (Tibet) Plateau; 2) geological evolution and upper Precambrian in the southeast margin of Yangtze Platform; 3) loess distribution map of China and its synopsis; 4) sea-level variation in China, its trend and environmental impact; 5) Triassic reefs in Sichuan and Guizhou Provinces; 6) origin of metallogenic epochs of Chinese mineral deposits since late Proterozoic era; 7) Phanozoic tectonic evolution and plate tectonic map of China; 8) lithosphere tectonic evolution of Palco-Tethsy, Western Yunan, and Sichuan Provinces;</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

Organization name	Institute name : Institute of Geology and Exploration - CCMRI Xian Branch	Section name :
	Parent organization name :	Director or Office name : Mr. Ye Chunshi, Director
Address information	Country name : China	Telephone : (29) 716437 Facsimile : (29) 719357 Telex : 70037
	Mailing address : c/o Central Coal Mining Research Institute^No. 44 Yanta Rd. (N)|Xian City 710054, Shaanxi, People's Republic of China	
Organization description	Number of people research professionals:310 supportion professionals : 240 Technicians : 55 Others : 365 Total :	Founding year : Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	coal geology and exploration, mining geology, hydrogeology, geophysical prospecting, exploratory boring, engineering geology, and computer data processing.	
Research activities		
Publications	· Coal Geology and Exploration (quarterly, in Chinese with English contents).	
Additional informatin		

Category : Geology

Organization name	Institute name : Institute of Hydrogeology and Engineering Geology	Section name :
	Parent organization name :	Director or Office name : Zhang Zonghu, Director
Address information	Country name : China	Telephone : 2027-29 Facsimile : 3055 Telex :
	Mailing address : Zhendding 050803, Hebei, People's Republic of China	
Organization description	Number of people research professionals:172 supportion professionals : 84 Technicians : 52 Others : 93 Total : 401	Founding year :
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Hydrology and engineering geology.	
Research activities		
Publications	· Institute Bulletin (annually).	
Additional information		

Category : Hydraulics

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Karst Geology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Yuan Daoxian, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (86773) 445151
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Guilin 541004, Guangxi Zhuangzu, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:110
supportion professionals : 31
Technicians : 95
Others : 51
Total : 287</td><td>Founding year :
1976.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1)karst geomorphology and geochemistry 2) speleology; 3) hydrogeology; 4) environmental and engineering geology 5) isotopic hydrology; 6) water resource estimation and groundwater protection; 7) karst mineral resources; 8) soil and rock mechanics; 9) micropaleontology;10) quaternary geology.</td></tr>
<tr><td>Research activities</td><td colspan="2">Sponsors All-China Symposium on Karstology (every four years) and annual regional symposia on karst hydrogeology or speleology.</td></tr>
<tr><td>Publications</td><td colspan="2">· Carsologica Sinica (quarterly, in Chinese with English abstracts and captions)</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name : Institute of Mechanical Engineering</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Dr. Shi Yao-wu, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 332911-602
Facsimile (029) 721471
: Telex : 70123</td></tr>
<tr><td>Mailing address : Xi'an Jiaotong University Xi'an 710049, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others :
Total :</td><td>Founding year : 1981</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute carries out laboratory research and development on: theory of machine tools, machinery fault diagnosis, CAD/CAM, FMS,hydraulic power transmission and mechanical control, laser and infrared technology, wear-resistant materials, welding technology and materials, metal forming, and die design</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional informatin</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Institute of Project Planning and Research	Section name :
	Parent organization name :	Director or Office name : Wang Rongyao, Director
Address information	Country name : China	
	Mailing address : 277 Wangfujing St. Beijing, People's Republic of China	Telephone : 558821 Facsimile : Telex :
Organization description	Number of people research professionals: supportion professionals : Technicians : Others : Total :	Founding year : 1953
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute undertakes research, consultancy, planning, and design of engineering projects for the machinery industry. Areas of interest include energy sources, civil architecture, materials handling, environmental protection, computer applications, acoustics, vibration isolation, and water treatment.	
Research activities		
Publications	· Machinery Plant Design (bimonthly).	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Rock and Mineral Analysis</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Li Jiaxi, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 8311550
Facsimile : 868310894
Telex :</td></tr>
<tr><td>Mailing address :
26 Baiwanzhuang Dajie Beijing,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:31
supportion professionals : 50
Technicians : 69
Others : 30
Total : 180</td><td>Founding year :
1978.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Analytical techniques in basic geology, mineral geology, hydrogeology, engineering and environmental geology, ore prospecting, and rock and mineral anaylsis.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds annual seminars.</td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of Rock and Mineral Analysis (quarterly, in Chinese).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

Organization name	Institute name : Institute of Rock and Soil Mechanics, Academia Sinica	Section name :
	Parent organization name : the Chinese Academy of Sciences	Director or Office name : Prof. Yuan Jian-xin, Director
Address information	Country name : China	
	Mailing address : Wuhan 430071, Hubei, People's Republic of China	Telephone : 711270 Facsimile : Telex : 5588
Organization description	Number of people research professionals:54 supportion professionals : 96 Technicians : 84 Others : 87 Total : 321	Founding year : 1958.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	nstitute carries out basic and applied research on rock and soil mechanics and rock and soil dynamics.	
Research activities	Holds national and international geotechnical engineering conferences (one to two times per year), open to engineers	
Publications	· Journal of Rock and Soil Mechanics (four times per year, in Chinese).	
Additional informatin		

Category : Geology

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Software, Academia Sinica</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Xu Kong Shi, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Box 8718 Beijing,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:312
supportion professionals :
Technicians :
Others :
Total : 312</td><td>Founding year :
1985</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) Computer science;
2) software theory, technology, and engineering;
3) system software and application software.</td></tr>
<tr><td>Research activities</td><td colspan="2">Trains intermediate and senior software personnel in China</td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of Sofeware</td></tr>
<tr><td>Additional information</td><td colspan="2">Undertakes research and development tasks as an entity of the China Software Technological Deuelopment Center</td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Water Conservation and Hydroelectric Power Research</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Chen Bingxin, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (1) 8415522
Facsimile : (1) 8412539
Telex : 22786 ITCES CN</td></tr>
<tr><td>Mailing address :
Beijing 100044, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:977
supportion professionals : 553
Technicians : 50
Others : 85
Total : 1665</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute is responsible for investigating problems of water conservation and hydropower development. Principal areas of research interest include the development and utilization of water resources, agricultural engineering, river and reservoir sedimentation problems, blasting and aseismatic engineering, turbines, metrological information and forecasting, hydraulics, new dam construction, automation of hydropower plants, and environmental, foundational, and geotechnical problems of hydraulic engineering projects.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

Organization name	Institute name : Lanzhou Engineering and Research Institute for Nonferrous Metallurgical Industry	Section name :
	Parent organization name :	Director or Office name : Guo Han Fu, Director
Address information	Country name : China	
	Mailing address : No. 200 Ti Ren Rd. Lanzhou, Gansu, People's Republic of China	Telephone : 21317 Facsimile : Telex :
Organization description	Number of people research professionals:492 supportion professionals : Technicians : Others : Total : 492	Founding year : 1958
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute is concerned with mining design, mineral processing, smelting of nonferrous metals, metallurgy, construction materials, and engineering design for light textile industry.	
Research activities		
Publications		
Additional information		

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Luoyang Institute of Refractories Research</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Xing Shou Wei, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 23501
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
No. 43, Jian Xi Qu, Xi Yuan Lu
Luoyang, Henan, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:91
supportion professionals : 162
Technicians : 108
Others : 34
Total : 395</td><td>Founding year :
1963.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) developing new refractory products, technology, and equipment;
2) basic properties of refractory raw materials;
3) new materials exploration;
4) design and feasibility studies for refractory plants;
5) physical testing and chemical analysis of raw materials and products; inorganic non-metal materials
6) thermal engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds annual seminar for research professionals and technicians.</td></tr>
<tr><td>Publications</td><td colspan="2">· Refractories (Chinese) and Refractories Information.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name : Materials Science and Engineering Research Institute of Qinghua University</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Dr. Li Heng-de, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (1) 282451
Facsimile :
Telex :</td></tr>
<tr><td>Mailing address : Beijing 100084,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:110
supportion professionals : 15
Technicians : 25
Others : 20
Total :</td><td>Founding year : 1979</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute conducts research in materials science and engineering, including studies in: metals, ceramics, polymers, composites, amorphous thin film, ion beam modification of materials, metal physics, and solid-state physics.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional informatin</td><td colspan="2"></td></tr>
</table>

Category : Material

Organization name	Institute name : Metallurgical Planning and Design Institute, Henan	Section name :
	Parent organization name :	Director or Office name : Guo Wen Chang, Director
Address information	Country name : China	
	Mailing address : 37 Huang He Lu Zhenghou, Henan, People's Republic of China	Telephone : 33162 Facsimile : Telex :
Organization description	Number of people research professionals:200 supportion professionals : Technicians : Others : Total : 200	Founding year : 1958
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's research program is concerned with: mininge ngineering, metallurgy, machine engineering, civil engineering, and electrical and electronic technology.	
Research activities		
Publications		
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Nanchang Nonferrous Metals Metallurgical Engineering and Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Yao Qinghua, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Nanchang, Jiangxi, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:960
supportion professionals :
Technicians :
Others :
Total : 960</td><td>Founding year :
1957.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute is concerned with the mining, dressing, and smelting of nonferrous metals. Areas of interest include chloridizing metallurgy, smelting furnaces, treatment of flue gases, automation and computerization, and treatment of waste residue, water, and gases.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Engineering and Research of Nonferrous Metals.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Nanjing Hydraulic Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Dr. Dou Gouren, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 633662
Facsimile :
Telex : 34153 NHRIC CN</td></tr>
<tr><td>Mailing address :
No. 223, Guangzhou Rd.
Nanjing, Jiangsu, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:500
supportion professionals : 100
Technicians : 100
Others : 300
Total : 1000</td><td>Founding year :
1935</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) engineering hydraulics; 2) seepage flow through hydraulic structures; 3) groundwater resources;4) hydraulics of navigation structures and fish-way structures, river dynamics and sedimentation;5) river training;6) tidal estuaries and
coasts;7) coastal processes and harbour siltation;8) wave dynamics and interaction between waves and structures;9) foundation improvement and foundation engineering; 10) soil deformation and interaction between soil and structures;
11) deep harbor construction;12) the construction technology of rock-fill dams; 13) geotechnical measuring technology; 14) massive structures exposed to water environment under long-term static loading;15) deep harbour construction technology;16) structural vibration and earthquake resistance; 17) strength and durability of reinforced concrete and prestressed concrete exposed to water environment;18) construction technology of concrete structures;
19) environmental engineering; 20)geosynthetics application; 21) application of radioactive isotope technology in hydraulic engineering; 22) instrument development and measuring technology; 23) data analysis; 24) technical andeconomic appraisal of engineering projects.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of Nanjing Hydraulic Research Institute.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

Organization name	Institute name : Northwest Institute	Section name :
	Parent organization name :	Director or Office name : Huang Xiao Min, Director
Address information	Country name : China	
	Mailing address : No. 219 Min Chu Dong Lu Lanzhou, People's Republic of China	Telephone : 28840 Facsimile : Telex :
Organization description	Number of people research professionals:210 supportion professionals : Technicians : Others : Total : 210	Founding year : 1961
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) landslide control; 2) railway construction in permafrost regions and frozen hazards prevention; 3) railway construction in loess regions and foundation stabilization; 4) railway construction in expansive soil regions and hazards prevention; 5) railway construction in desert regions and sand prevention on railways.	
Research activities		
Publications	· Proceedings of Landslides	
Additional information		

Category : Transportation

Organization name	Institute name : Population Research Institute	Section name :
	Parent organization name :	Director or Office name : Prof. Jiang Zheng-hua, Director
Address information	Country name : China	
	Mailing address : Xi'an Jiaotong University Xi'an 710049, Shaanxi, People's Republic of China	Telephone : 721011 Facsimile : Telex : 70123
Organization description	Number of people research professionals : 14 supportion professionals : 8 Technicians : Others : Total :	Founding year : 1982
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1)technical demography; 2)population mathematics and simulation; 3)development planning and decision analysis of the population and economy; 4) female population studies.	
Research activities	Offers training courses in technical demography, socioeconomic and demographic systems engineering, computer software, and family planning	
Publications		
Additional informatin		

Category : Planning

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Qiqihar Research Institute of Science and Technology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mei Shi Hen, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 2068
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Helong, Heilongjiang,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:64
supportion professionals :
Technicians :
Others :
Total : 64</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) Advanced technological application and functional and stress testing of the main parts of locomotives, coaches, and wagons;
2) basic, supervisory, blocked, and assistant equipment of railway signals;
3) autosupervise and assistant systems of communication devices;
4) roadbeds and bridges;
5) geophysics of development of underground water in the permafrost region;
6) machinery and equipment for line maintenance;
7) cold region building and construction technology;
8) computer applications.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Research Center for Eco-Environmental Sciences, Academia Sinica</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Dr. Zhuang Ya-hui, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (1) 284946
Facsimile : (1) 284896
Telex : 5499</td></tr>
<tr><td>Mailing address :
Beijing 100083, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization Descriptin</td><td rowspan="2">Number of people
research professionals:305
supportion professionals :
Technicians :
Others : 127
Total : 432</td><td>Founding year :
1986</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) systems ecology;
2) ecological engineering;
3) environmental chemistry;
4)analytical chemistry;
5)environmental impact analysis;
6) pollution control.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· primary journals and in Acta Ecologica Sinica (quarterly, in Chinese);
· Acta Scientiae Circumstantiae (quarterly, in Chinese);
· Environmental Sciences (quarterly, in English);
· Environmental Chemistry (quarterly, in Chinese);
· Journal of Environmental Sciences (six times per year).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Environment

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Research Institute of Water Conservation and Hydroelectric Power</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Sheng Che Jing, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 25951
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
No. 62, Han Dan Zou Hua Da Jie
Hebai, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:24
supportion professionals :
Technicians :
Others :
Total : 24</td><td>Founding year :
1951.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">hydraulic testing, farm hydraulic resources, hydrogeology, electronic and computer techniques, engineering structure, and mechanical testing.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Information Materials.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

Organization name	Institute name : Second Institute of Project Planning and Researchl	Section name :
	Parent organization name :	Director or Office name : Zhu Xingzi, Director
Address information	Country name : China	
	Mailing address : Shi Qiao Hangzhou, Zhejiang, People's Republic of China	Telephone : 44101 Facsimile : Telex :
Organization description	Number of people research professionals:665 supportion professionals : Technicians : Others : Total : 665	Founding year : 1953
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute is concerned with project planning, feasibility studies, design, technology, and consultancy for various machinery industries. Areas of interest include small and medium power stations, heat supply systems, energy conservation techniques, computer applications, environmental engineering, industrial furnaces, and material flow techniques.	
Research activities		
Publications		
Additional information		

Category : Hydraulics

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Seventh Design and Research Institute.</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Shi Baozhi, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 715108
Facsimile : 717473
Telex : 70142 SDRI CN</td></tr>
<tr><td>Mailing address :
Si'An, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:200
supportion professionals : 300
Technicians : 200
Others : 227
Total : 927</td><td>Founding year :
1957.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1)engineering design for factories specializing in electric power transmission and distribution equipment and materials;2) design for city power supply systems; 3) engineering design for textile, medical, chemical, and building material industries; 4) architectural design for hotels, gymnasiums, educational and medical facilities, and laboratories;5) city and district planning of residences and water and heating supply centers; 6) engineering design for environmental protection; 7) new technology for the electric industry; 8)design of production lines;9) engineering for boiler stations, substations, wastewater treatment stations, and industrial and civil architecture.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds conferences and technical seminars.</td></tr>
<tr><td>Publications</td><td colspan="2">· Electical Apparatus Factory Design; Water Supply and Drainage.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Shanghai City Planning and Designing Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Xia Liqing, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 2476345
Facsimile : 2477739
Telex : 30258</td></tr>
<tr><td>Mailing address :
Shanghai 200040, People's Republic of Chinal</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians : 147
Others : 35
Total : 182</td><td>Founding year :
1957.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute is engaged in comprehensive planning of the city of Shanghai including district, regional, and residential planning, communications outside the city, road traffic, municipal installations, and scenic areas. Institute also conducts feasibility studies as well as research and technical consultancy.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Urban Planning Forum (six times per year, in Chinese)</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Planning

Organization name	Institute name : Shanghai Institute of Mechanical and Electrical Engineering	Section name :
	Parent organization name :	Director or Office name :
Address information	Country name : China	
	Mailing address : Zhong Shan Dong 2nd Lu, 9 Hao Shanghai, People's Republic of China	Telephone : 3219580 Facsimile : 3206188 Telex :
Organization description	Number of people research professionals: supportion professionals : Technicians : 860 Others : Total : 860	Founding year : 1953.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute is concerned with comprehensive building engineering, including analysis, feasibility and pre-feasibility studies, equipment choice, design, research of civil construction, power supply, heating and ventilation, air conditioning, and energy saving.	
Research activities		
Publications		
Additional information		

Category : Others

Organization name	Institute name : Shanghai Light Industry Research Institute	Section name :
	Parent organization name :	Director or Office name : Sha Shangzhi, Director
Address information	Country name : China	
	Mailing address : Shanghai 200031, People's Republic of China	Telephone : 4372070 Facsimile : Telex :
Organization description	Number of people research professionals:107 supportion professionals : 65 Technicians : 80 Others : 50 Total : 302	Founding year : Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1)Surface finishing and related pollution control 2) fine chemicals, including additives used for electroplating, cosmetic products, adhesives for packings, and shoe making; 3) mechanical designs; 4) electronics and computer applications for process and quality control.	
Research activities	Offers computer application and metal finishing technology training courses or seminars two to three times per year for factory engineers and tehnicians.	
Publications		
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Shanghai Ship and Shipping Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Huang Zhong Xiu, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (21) 8840438
Facsimile : (21) 8842773
Telex : 33107 SSSRI CN</td></tr>
<tr><td>Mailing address :
R200 Minsheng Rd. Shanghai,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals: 670
supportion professionals :
Technicians :
Others :
Total : 670</td><td>Founding year :
1962</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Principal areas of research interest include navigational aids, ship structure, ship hydrodynamics, marine engines, ship automation and electrical engineering, marine anti-pollution and anti-corrosion, navigation and communication, ship technical and economical evaluation, and computing techniques.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of SSSRI, Journal of Navigation of China, and Marine Technical News and Trends.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Shenyang Institute of Computer Technology, Academia Sinica</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Luan Guixing, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 392012
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
24, Sun Hao Jie 2 Dan
Shenyang,Liaoning, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:400
supportion professionals :
Technicians :
Others :
Total : 400</td><td>Founding year :
1958</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute's program in computer technology includes research on hardware and software, peripheral devices, computer applications, microsystem development, CAD/CAM/CAE, and large-scale scientific computations.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Sixth Institute of Project Planning and Research	Section name :
	Parent organization name :	Director or Office name : Yan Ke Biao, Director
Address information	Country name : China	
	Mailing address : Zhengghou, Henan, People's Republic of China	Telephone : 46641 Facsimile : Telex :
Organization description	Number of people research professionals:450 supportion professionals : Technicians : Others : Total : 450	Founding year : 1951.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Engineering projects, including planning, consulting, contracting, feasibility studies, and design of high-rise and civil buildings, production lines, special equipment, and kilns. Also studies environmental protection, pollution treatment, and energy utilization.	
Research activities		
Publications	· Group Technology Production System.	
Additional information		

Category :General

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
South China Sea Institute of Oceanology, Academia Sinica</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Chinese Academy of Sciences</td><td>Director or Office name :
Sun Yuke, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : (020) 451335
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
164 W. Xingang Rd. Guangzhou,
People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:246
supportion professionals : 93
Technicians : 233
Others : 129
Total : 701</td><td>Founding year :
1959.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">(↓)

observations; 9)Laboratory of Computer Application processes oceanographic data; 10) Laboratory of Marine Chemistry is involved in the assessment of the environmental quality and the geochemical processes of estuaries, the distribution of hydrochemical factors, and the geochemical processes of elements; and 11) Analysis Center determines and analyzes inorganic and organic compositions, and studies techniques concerning measuring, testing, and analyzing.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds annual conferences on marine biology, physical oceanography, meteorology, marine physics, oil development environments of the South China Sea, and geotectonics; usually held in the winter and attended by Chinese and foreign scientists.</td></tr>
<tr><td>Publications</td><td colspan="2">· Tropic Oceanology (quarterly);
· Nanhai Studia Marina Sinica (irregulary, in Chinese with English abstracts)</td></tr>
<tr><td>Additional informatin</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

Organization name	Institute name : South-West Research Institute of Water Transport Engineering	Section name :
	Parent organization name :	Director or Office name :
Address information	Country name : China	
	Mailing address : Da Ping Da Huang Lu 107 Hao Chongqing, People's Republic of China	Telephone : 812821 Facsimile : Telex :
Organization description	Number of people research professionals:64 supportion professionals : Technicians : Others : Total : 64	Founding year : 1966.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Water transport engineering, river engineering, harbor engineering, navigation, and electronic instrumentation.	
Research activities		
Publications		
Additional information	Institute includes the Waterway, Hydraulic Structure, Electronic Instrumentation, Technical Information, and Transport Engineering departments.	

Category : Hydraulics

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name : Systems Engineering Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Hu Bao-sheng, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 721011
Facsimile :
Telex : 70123</td></tr>
<tr><td>Mailing address : Xi'an Jiaotong University Xi'an 710049, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:52
supportion professionals : 6
Technicians : 7
Others : 4
Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute's program involves control theory, operations research, mathematical programming and AI with application to engineering and management systems, and development of complex systems theory. Institute maintains research units for: large-scale systems theory and application; systems modeling and simulations; systems analysis and methodology; multiobjective optimization and decision; theory and application of discrete event dynamic systems; power systems engineering; and mathematical demography.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds conferences.</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional informatin</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Theory of Lubrication and Bearing Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof . Xie You-Bai, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 335011-552
Facsimile : 335471
Telex : 70123</td></tr>
<tr><td>Mailing address :
Xi'an 710049, Shaanxi, People's Republic of China</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:13
supportion professionals : 5
Technicians : 6
Others :
Total : 24</td><td>Founding year :
1958.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Tribology, including systems engineering of tribo-systems, tribological design and design expert systems, theory of hydrodynamic lubrication, EHL, surface topography and contacts, tribological ceramics, PVD and CVD, dynamics (including dynamics of rotor-bearing systems), modal and system parameter identification, adaptive control of system vibration, nonlinear analysis, electromagnetic suspensions, ferrography, reliability of machine parts, condition monitoring, and fault diagnosis of machinery.</td></tr>
<tr><td>Research activities</td><td colspan="2">Sponsors International Conference on Hydrodynamic Bearing--Rotor System Dynamics (every four years, beginning in 1990).</td></tr>
<tr><td>Publications</td><td colspan="2">· research reports and proceedings (irregularly, in Chinese with English abstracts).</td></tr>
<tr><td>Additional informatin</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Third Survey and Design Institute	Section name :
	Parent organization name :	Director or Office name : Zhang Guanglu, Director
Address information	Country name : China	
	Mailing address : 10, Zhong Shan Rd. Tianjin, Liaoning, People's Republic of China	Telephone : 261560 Facsimile : Telex :
Organization description	Number of people research professionals: supportion professionals : Technicians : Others : Total : 1366	Founding year : 1953
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's research program is concerned with engineering work, including surveys and plotting; exploration; technical consultation; planning; feasibility studies for railways, highways, bridges, and tunnels; industrial and civil building; mass transit for cities; and automatic telecommunications.	
Research activities		
Publications		
Additional information		

Category :General

Organization name	Institute name : Tianjin Port Engineering Institute	Section name :
	Parent organization name :	Director or Office name : Wang Hai Bing, Director
Address information	Country name : China	Telephone : 840037 Facsimile : :840305 Telex : 23346 FMEB CN
	Mailing address : Tianjin 300222, Liaoning, People's Republic of China	
Organization description	Number of people research professionals:125 supportion professionals : 84 Technicians : 95 Others : 36 Total : 340	Founding year : 1959.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Post engineering research, including geotechnical engineering, hydraulic model tests with irregular waves, mathematical modelling for coastal environments, construction materials, dynamic structural analysis, construction technology, instrumentation and automatic control systems, application computer softwares for civil engineeering design and management.	
Research activities		
Publications	· Harbour Engineering (bimonthly, in Chinese).	
Additional information		

Category :General

Organization name	Institute name : Wuhan Institute for Mathematical Sciences, Academia Sinica	Section name :
	Parent organization name : the Chinese Academy of Sciences	Director or Office name : Prof. Ding Xia-xi, Director
Address information	Country name : China	Telephone : Facsimile : Telex :
	Mailing address : Wuhan 430071, Hubei, People's Republic of China	
Organization description	Number of people research professionals:36 supportion professionals : 15 Technicians : 5 Others : 12 Total : 68	Founding year : 1956.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's research interests include differential equations,theory of functions, mathematical physics, mathematical mechanics, artificial intelligence, mathematics of computation, and systems engineering.	
Research activities	Holds symposia on mathematical sciences every two years.	
Publications	· Acta Mathematica Scientia and Lecture Notes in Mathematical Sciences.	
Additional informatin		

Category : Others

Organization name	Institute name : Yangtze Research Institute of Geotechnique and Survey	Section name :
	Parent organization name :	Director or Office name : Cheng De Zi, Director
Address information	Country name : China	
	Mailing address : Wuban, Hubei, People's Republic of China	Telephone : 512292-250 Facsimile : Telex :
Organization description	Number of people research professionals:51 supportion professionals : Technicians : Others : Total : 51	Founding year : 1981
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Geotechnical engineering, including numerical analysis, remote sensing, geophysics, in situ testing, and deformation monitoring of dams, slopes, and the earth crust.	
Research activities		
Publications		
Additional information		

Category : Geology

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Yangtze River Scientific Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Dr. Chen Jisheng Ph.D., Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : China</td><td rowspan="2">Telephone : 502935
Facsimile :
Telex : 40139 HBYVO CN</td></tr>
<tr><td>Mailing address :
Wuhan 430010, Hubei, People's Republic of China</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians : 700
Others : 333
Total : 1033</td><td>Founding year :
1951</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Engineering projects include: Three Gorge, Gezhouba, Danjiangkou, Wanan, Lushui, Wujiangdu, Geermu, Liujiaxia, Geheyan, Lubuge, Pumped-storage hydroplant in Guangzhou, Yahekou reservoir, Jingjiang flood diversion work, Jingjiang dyke, Huangtian airport in Shenzhen, Guang fu and Daihuang freeways, Changjiang highway bridge in Wuhan, and intake of Yangluo thermal power plant. Comprises the following divisions: River; Hydraulics; Material and Structure; Soil Engineering; Rock Foundation; Blasting; Vibration and Physicochemistry; Instrumentation; Electronic Computer and Dam Safety Monitoring Center.</td></tr>
<tr><td>Research activities</td><td colspan="2">Graduat school offers academic degrees to graduate students for master of engineering degree.</td></tr>
<tr><td>Publications</td><td colspan="2">· Journal of the YRSRI (bimonthly, in Chinese);
· Selected Papers (in English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

ABSTRACT

OF

INSTITUTE

India

India - 1

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
ACC Central Research Station</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Associated Cement Co., Ltd.,</td><td>Director or Office name :
Dr. A. K. Chatterjee, Director and Chief Executive</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : (11) 593631
Facsimile :
Telex : 72190</td></tr>
<tr><td>Mailing address :
Thane 400 604, Maharashtra, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:34
supportion professionals : 88
Technicians :
Others :
Total : 122</td><td>Founding year :
1965.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Research & Consultancy Directorate offers consulting services in the areas of research and development, process engineering and productivity, geology environment and mining, erection and construction, refractory engineering and application, and technical and management training.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Cement Abstracts (quarterly);
· Cement News (bimonthly);
· Current Awareness Service (monthly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

India - 2

Organization name	Institute name : Automotive Research Association of India	Section name :
	Parent organization name :	Director or Office name : P. A. Paranjpe, Director
Address information	Country name : India	Telephone : (22)431819 Facsimile : Telex : 145484
	Mailing address : Pune 411 004, Maharashtra, India	
Organization description	Number of people research professionals:60 supportion professionals : 90 Technicians : Others : 113 Total : 263	Founding year : 1966
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	ARAI is responsible for research and development, testing, training, and standardization of automotive vehicles and parts.	
Research activities	Sponsors seminars and symposia in collaboration with national and international organizations. Also holds SIAT (Symposium on Indian Automotive Technology) (biennially, in January).	
Publications	· Automotive Abstracts (monthly, in English).	
Additional information		

Category : Transportation

Organization name	Institute name : Bharat Heavy Electricals Limited, Corporate Research and Development Division	Section name :
	Parent organization name : the Bharat Heavy Electricals Ltd. (BHEL),	Director or Office name : Mr. K. C. Lahiry, Executive Director
Address information	Country name : India	Telephone(0842)262628 Facsimile : (0842) 263320 Telex : 04256404
	Mailing address : Hyderabad 500 593, Andhra Pradesh, India	
Organization description	Number of people research professionals:286 supportion professionals : 153 Technicians : 274 Others : 322 Total : 1035	Founding year : 1974.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	electrical engineering, including electromagnetic phenomena, electrical machines, static electrical equipment, high voltage engineering, vacuum devices, and insulation technology; 2) electronics and control, including drives and controls, process instrumentation, applied electronics, and simulator projects; 3) mechanical sciences, including experimental and analytical stress analysis, design analysis, vibration, tribology, and aerodynamics; 4) material sciences and metallurgy, including powder metallurgy, coatings, ceramics, solid state devices, creep, fatigue, and fracture mechanics; 5) chemical sciences, including insulation chemistry, electrochemistry, water chemistry and corrosion; 6) ventilation and cooling of electrical machines; 7) new and renewable energy sources, including solar energy, wind energy, biogas, waste heat recovery systems, and thermal storage systems; 8) reliability and failure analysis; and 9) technology development.	
Research activities		
Publications	· Division publishes BHEL Journal (quarterly); · Engineering News (monthly); R & D News (monthly); all in English.	
Additional information		

Category : Material

India - 4

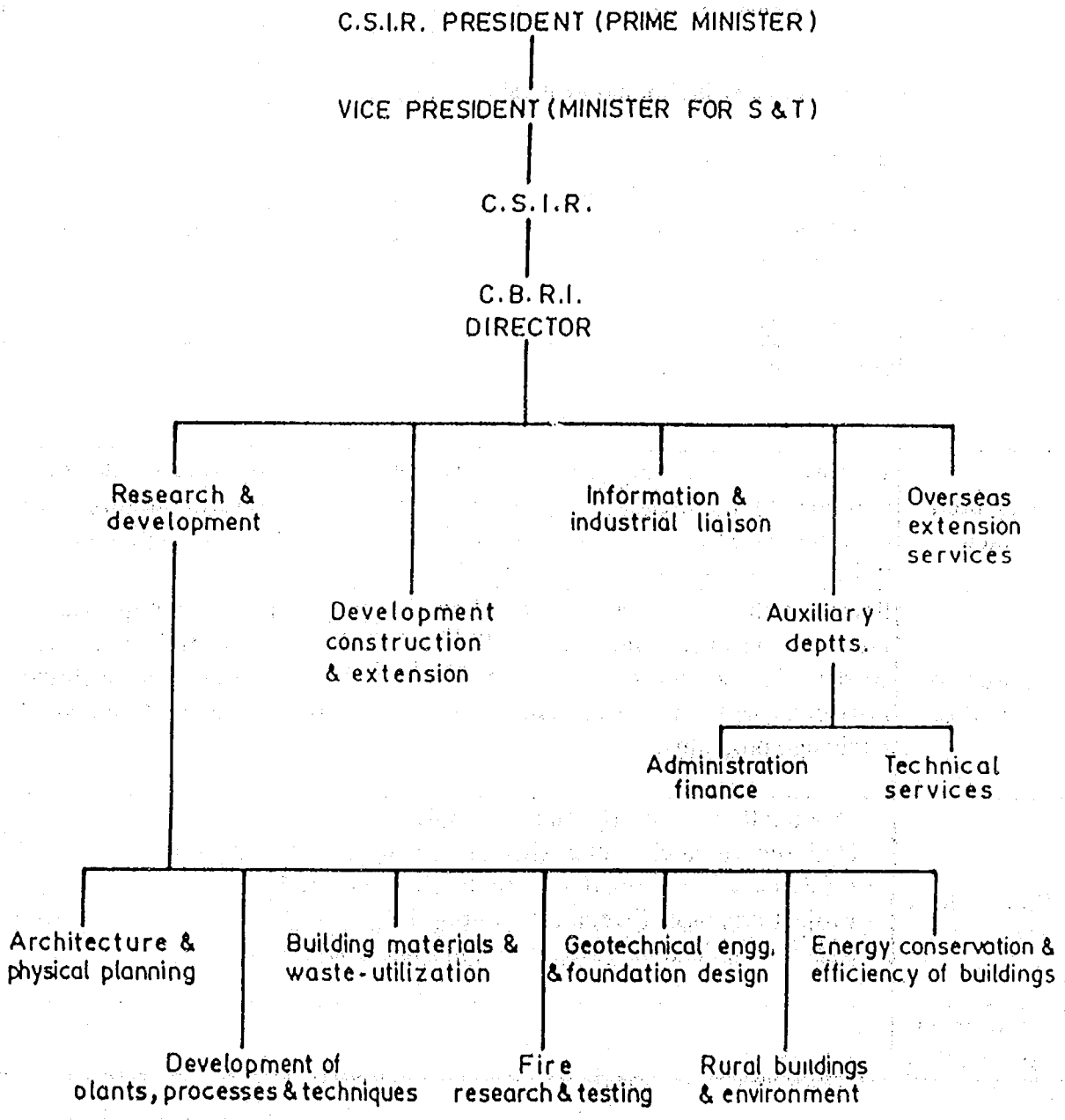
Organization name	Institute name : Bureau of Indian Standards	Section name :
	Parent organization name :	Director or Office name : Lt. Gen. H. Lal, Director-General
Address information	Country name : India	Telephone : (11) 3310131 Facsimile : (11) 3314062 Telex : 65870
	Mailing address : New Delhi 110 002, India	
Organization description	Number of people research professionals:579 supportion professionals : 64 Technicians : 178 Others : 1442 Total : 2263	Founding year : 1947
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	BIS conducts research related to standardization, quality control, and certification.	
Research activities	Sponsors conventions on standardization, quality control, consumer problems, and certification systems.	
Publications	· Standards India (monthly); · Standards Worldover Monthly Additions; · BIS Handbook; · Standards Monthly Additions.	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Central Building Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Council of Scientific and Industrial Research (CSIR),</td><td>Director or Office name :
Dr. S. K. Misra, Acting Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : (1332)2243
Facsimile : (1332) 2272
Telex : 0597203</td></tr>
<tr><td>Mailing address :
Roorkee 247 667, Uttar Pradesh, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:186
supportion professionals : 236
Technicians : 134
Others : 106
Total : 662</td><td>Founding year :
1947</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1)thrust area 2) building processes, plant and productivity 3) efficiency of buildings 4) fire research 5) geotechnical engineering 6) rural buildings and environment 7) structural engineering 8) architecture & physical planning 9) interdisciplinary</td></tr>
<tr><td>Research activities</td><td colspan="2">liaison with industry and users; demonstration of new techniques and processes; feedback on processes licensed; and training of field staff and workers (including research workers from developing countries). Institute also lends the services of its staff to developing countries under bilateral exchange programs.</td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report (in English and Hindi);
· Building Research Notes (irregularly, in English and Hindi);
· CBRI Newsletter (quarterly, in English and Hindi);
· Project Proposals (irregularly, in English);
· Special Publications (irregularly, in English and Hindi).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

ORGANIZATIONAL CHART OF C.B.R.I. ROORKEE



<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Central Electrochemical Research Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Council for Scientific and Industrial Research (CSIR),</td><td>Director or Office name :
Prof. S.K. Rangarajan, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 2368
Facsimile :
Telex : 0443211</td></tr>
<tr><td>Mailing address :
Karaikudi 623 006, Tamil Nadu, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:200
supportion professionals :
Technicians : 415
Others : 100
Total : 715</td><td>Founding year :
1953.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">CECRI's activities involve research and development in: corrosion science and engineering, industrial metal finishing, batteries and fuel cells, electrochemicals and thermics, electrometallurgy, electrochemical materials science, electrodes, electrobiology and pollution control, electrochemical electronics, and instrumentation and electrochemical engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2">Sponsors refresher courses in selected fields of electrochemical science and offers a B. Tech. degree program in electrochemical engineering</td></tr>
<tr><td>Publications</td><td colspan="2">· Bulletin of Electrochemistry (monthly);
· CECRI News (quarterly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

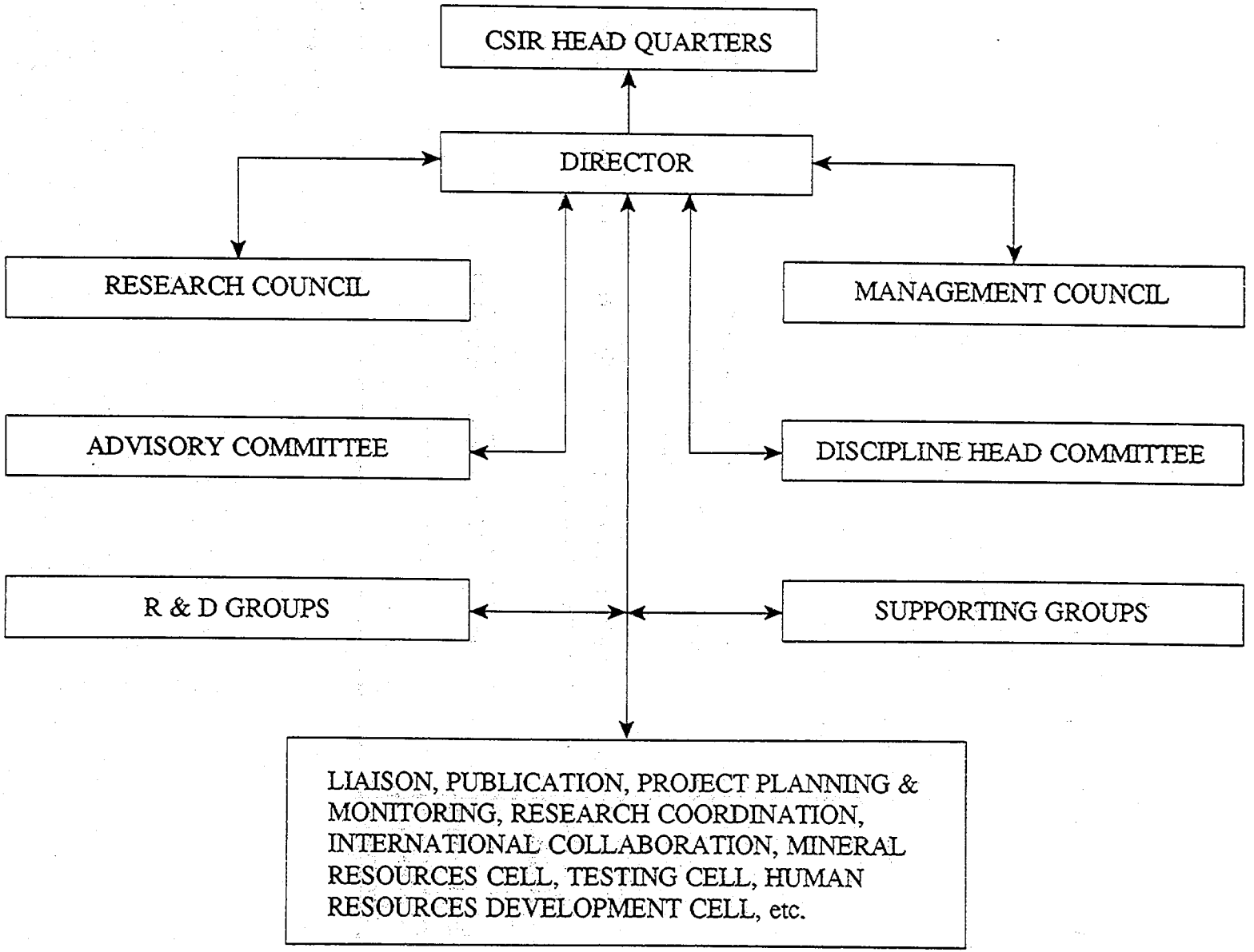
Category : Material

India - 7

Organization name	Institute name : Central Mining Research Station	Section name :
	Parent organization name : the Council of Scientific and Industrial Research (CSIR)	Director or Office name : Prof. B.B. Dhar, Director
Address information	Country name : India	Telephone : 2616-5911 Facsimile : 91-326-2597 Telex : 0629-208 CMRSIN
	Mailing address : Dhanbad 826 001, Bihar, India	
Organization description	Number of people research professionals:258 supportion professionals : 172 Technicians : Others : 96 Total : 526	Founding year : 1955.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Rock mechanics and mining methods and techniques for underground and opencast mines; mine environment, safety, and health; and mine engineering design, development, and instrumentation.	
Research activities		
Publications	· CMRS Newsletter · CMRS Annual Report;	
Additional information		

Category : Geology

FUNCTIONAL STRUCTURE



Organization name	Institute name : Central Research Institute for Jute and Allied Fibres	Section name :
	Parent organization name :	Director or Office name : Dr. S. L. Basak, Director
Address information	Country name : India Mailing address : Barrackpore 743 101, West Bengal, India	Telephone : 561120 Facsimile : Telex : 4091
Organization description	Number of people research professionals:89 supportion professionals : 134 Technicians : 156 Others : 72 Total : 451	Founding year : 1948 Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute conducts research on fiber crops. Areas of study include agronomy, plant breeding and genetics, plant physiology, soil science, plant pathology, entomology, and agricultural engineering.	
Research activities	Sponsors annual seminar on jute and allied fibers in January, interested scientists are invited to attend.	
Publications	· Annual Report; Newsletters (irregularly).	
Additional information		

Category : Geology

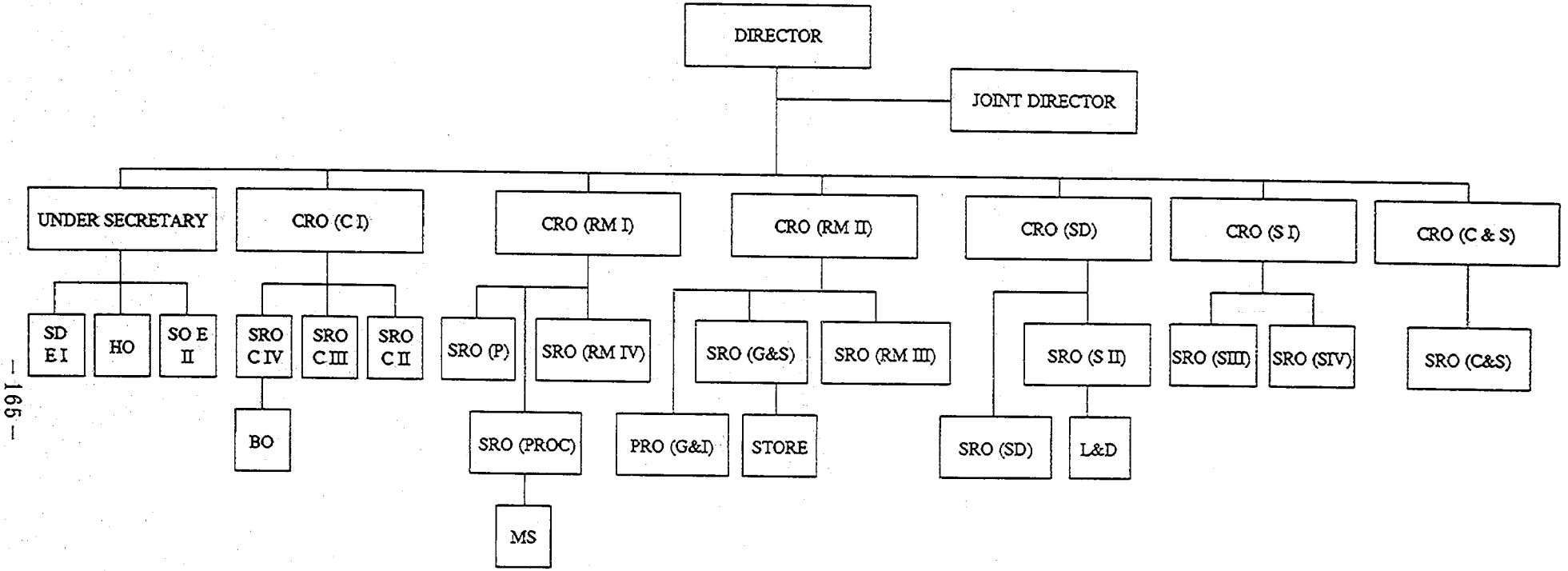
Organization name	Institute name : Central Road Research Institute	Section name :
	Parent organization name : the Council of Scientific and Industrial Research (CSIR)	Director or Office name : Dr. D. V. Singh, Director
Address information	Country name : India	Telephone : (11)631959 Facsimile : Telex : 31-61369
	Mailing address : New Delhi 110 020, India	
Organization description	Number of people research professionals:100 supportion professionals : 66 Technicians : 193 Others : 139 Total : 498	Founding year : 1952.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Highway, traffic, and transportation engineering, including pavement materials, management and evaluation, bridge engineering, geotechnical engineering, construction management, and highway instrumentation.	
Research activities	Held for in-service highway engineers.	
Publications	· Annual Report; Road Research Papers; · CRRI Road Abstracts.	
Additional information		

Category : Transportation

Organization name	Institute name : Central Soil and Materials Research Station	Section name :
	Parent organization name : Ministry of Water Resources	Director or Office name : Dr. V.M. Sharma, Director
Address information	Country name : India	
	Mailing address : Olof Palme Marg, Hauz Khas, New Delhi 110 016, India	Telephone : 663140,657985 Facsimile : (11)6853108 Telex : 31-73057 CSMR-IN
Organization description	Number of people research professionals:174 supportion professionals : 30 Technicians : 102 Others : 225 Total : 531	Founding year : 1954
		Other Organization Information (Budget etc) : Rs.49.9 millions (Plan and Non-Plan)
	Organization Chart : Enclosed	
Research area	Areas of research interest include: soil mechanics, soil dynamics, rockfill technology, rock mechanics, foundation engineering, concrete technology, construction materials, geophysical investigations, field instrumentation, and chemical and sediment analysis.	
Research activities	New applied research activities are on-going work in the field of Soil, Rock Mechanics and Concrete Technology.	
Publications	· Several research papers in National / International Journals.	
Additional information	A second UNDP assisted scheme, "Upgradation of Geomechanics Investigations Facilities at CSMRS" is being implemented at present.	

Category : Geology

ORGANISATION CHART OF CSMRS



LEGEND

CRO : Chief Research Officer
SRO : Senior Research Officer
BO : Branch Officer
SO : Section Officer
HO : Hindi Officer
WS : Workshop
L&D : Library & Documentation Centre
I/C : Incharge

C : Concrete
S : Soil
G & I : Geophysics & Instrumentation
RM : Rock Mechanics
SD : Soil Dynamics
C & S : Chemistry & Silt
P : Physics
G & S : Geophysics & Stores
Grill : Drilling Section
Proc : Procurement

Organization name	Institute name : Central Soil Salinity Research Institute	Section name :
	Parent organization name :	Director or Office name : Dr. N. T. Singh, Director
Address information	Country name : India	Telephone : 2686 Facsimile : Telex : 0396-218 SSRI IN
	Mailing address : Karnal 132 001, Haryana, India	
Organization description	Number of people research professionals:69 supportion professionals : 176 Technicians : 66 Others : 95 Total : 406	Founding year : 1969.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Soil science, agronomy, genetics, plant physiology, and agricultural engineering and economics.	
Research activities		
Publications	· Annual Report (in English); · Salinity News (quarterly); · Technical Bulletins (occasional brochures, in English and Hindi).	
Additional information		

Category : Geology

Organization name	Institute name : Engineers India Limited, Research and Development Division	Section name :
	Parent organization name :	Director or Office name : Dr. D. N. Rihani, General Manager
Address information	Country name : India	Telephone0127222904 Facsimile : 011-6872693 Telex : 342-209
	Mailing address : Gurgaon 122001, Haryana, India	
Organization description	Number of people research professionals:27 supportion professionals : 16 Technicians : 23 Others : 35 Total : 101	Founding year : 1970.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division is concerned with the development of process design tools, process technology, and equipment development.	
Research activities		
Publications		
Additional information		

Category : Others

India - 13

Organization name	Institute name : Indian Agricultural Research Institute	Section name :
	Parent organization name : the Indian Council of Agricultural Research,	Director or Office name : Dr. N. N. Goswani, Acting Director
Address information	Country name : India	Telephone(11)582081 Facsimile : Telex : 3177161
	Mailing address : New Delhi 110 012, India	
Organization description	Number of people research professionals:706 supportion professionals : Technicians : 976 Others : 3149 Total : 4831	Founding year : 1905.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) Agricultural Chemicals; 2) Agricultural Economics; 3) Agricultural Engineering; 4) Agricultural Physics; 5) Agronomy; 6) Biochemistry; 7) Entomology; 8) Genetics; 9) Fruits and Horticultural Technology; 10) Microbiology; 11) Mycology and Plant Pathology; 12) Nematology; 13) Seed Science and Technology; 14) Plant Physiology; 15) Soil Science and Agricultural Chemistry; 16) Vegetable Crops; 17) Floriculture and Landscaping; 18) Agricultural Extension; and 19) Biotechnology. (See separate entries for descriptions of each Division.)	
Research activities	Holds annual workshops on various crop-based research projects; conferences and seminars (on an irregular basis); and courses and training programs leading to the award of Masters and Doctoral Degrees in agricultural science.	
Publications	· Annual Report; Newsletter (quarterly); · Research Bulletins (irregularly, in English and Hindi).	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
IARI Water Technology Centre</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. T. K. Sarkar, Project Director</td></tr>
<tr><td rowspan="2">Address information</td><td colspan="2">Country name : India</td></tr>
<tr><td>Mailing address :
New Delhi 110 012, India</td><td>Telephone : (11)586790
Facsimile : Telex :</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:35
supportion professionals :
Technicians : 45
Others : 72
Total : 152</td><td>Founding year :
1970</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Centre conducts research in water technology, including studies in irrigation and drainage engineering, crop water management, soil salinity and land reclamation, and soil-water-plant relationships.</td></tr>
<tr><td>Research activities</td><td colspan="2">Seminars are held on a monthly basis for specialists and scientists.</td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report. Seminars are held on a monthly basis for specialists and scientists.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Indira Gandhi Centre for Atomic Research</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mr. C. V. Sundaram, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone:(4117)360240
Facsimile :
Telex : 6244</td></tr>
<tr><td>Mailing address :
Kalpakkam 603 102, Tamil Nadu, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:432
supportion professionals : 44
Technicians : 1100
Others : 122
Total : 1698</td><td>Founding year :
1971.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Centre conducts a program of research and development in fast breeder reactor technology, including studies in materials science and engineering, fuel reprocessing, reactor safety, health physics, and reactor physics.</td></tr>
<tr><td>Research activities</td><td colspan="2">Conducts weekly seminars.</td></tr>
<tr><td>Publications</td><td colspan="2">· IGC Newsletter and IGC Technical Reports.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Indian Institute of Chemical Technology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. A. V. Rama Rao, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : (842) 853874
Facsimile :
Telex : 4257061</td></tr>
<tr><td>Mailing address :
Hyderabad 500 007, Andhra Pradesh, India</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:373
supportion professionals : 186
Technicians : 362
Others : 366
Total : 1287</td><td>Founding year :
1944.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Chemical technology, including studies in agricultural chemicals, organic intermediates, drugs, oils and fats, organic coatings and polymers, coal, catalysis and material science, process design, and engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report and Bulletin (quarterly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

Organization name	Institute name : Indian Plywood Industries Research Institute	Section name :
	Parent organization name :	Director or Office name : Dr. P. M. Ganapathy, Director
Address information	Country name : India	Telephone(812)384231 Facsimile : Telex :
	Mailing address : Bangalore 560 022, Karnataka, India	
Organization description	Number of people research professionals:53 supportion professionals : Technicians : Others : 55 Total : 108	Founding year : 1961.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's research and development program is concerned with wood, plywood, and other wood-based panels. Activities include: investigations into structure, properties, and preservation of wood and plywood; process development and engineering studies; adhesive technology; application of plywood in various end uses; instrument design and improvement; improvement of Indian Standard Specifications; and quality control andtraining in plywood technology.	
Research activities		
Publications		
Additional information		

Category : Material

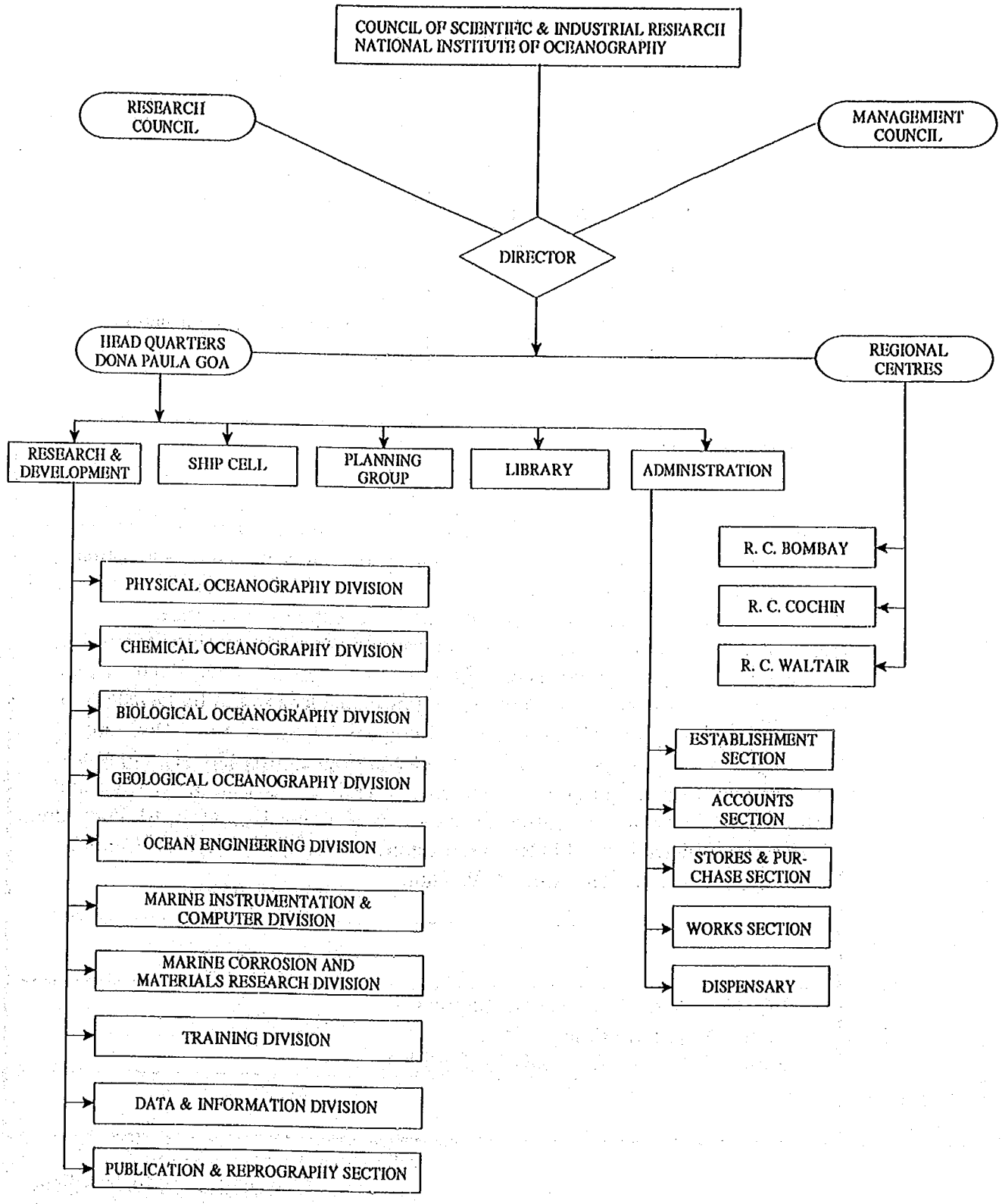
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
ISRO Satellite Centre</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Indian Space Research Organisation (ISRO).</td><td>Director or Office name :
Dr. Kasturi Rangan, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 566251
Facsimile : 567621
Telex : 08452325</td></tr>
<tr><td>Mailing address :
Bangalore 560 017, Karnataka, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:220
supportion professionals : 860
Technicians : 607
Others : 535
Total : 2222</td><td>Founding year :
1972</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Centre is responsible for research and development in satellite technology, including studies in the areas of power generation, high speed data handling and transmission, spacecraft structure and thermal systems, spacecraft mechanism, robotics, attitude and orbit control systems and sensors, and mission planning and analysis. Ongoing projects include the development the Indian Remote Sensing Satellite (IRS) series, the second generation Indian National Satellite (INSAT-II) system, and Stretched Rohini Satellite Series (SROSS) for upper atmospheric research and other scientific experiments. Centre also provides technical consulting services in a wide range of technological and engineering disciplines to Indian industries and
research and development institutions.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Upagrah (quarterlyb newsletter).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
National Chemical Laboratory</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Council of Scientific and Industrial Research (CSIR)</td><td>Director or Office name :
Dr. R.A. Mashelkar, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 336151
Facsimile : 3320233
Telex : 0145 586</td></tr>
<tr><td>Mailing address :
Pune 411 008, Maharashtra, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:502
supportion professionals : 165
Technicians : 226
Others : 206
Total : 1099</td><td>Founding year :
1950</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Long-term projects dealing with the national problems in food,energy, health, and use of Indian natural resources; and short-term projects for meeting the needs of the chemical industry. Areas of research include: catalysis, biotechnology, agrochemicals, drugs and drug intermediates, materials science, plant sciences, polymers, process design, and software development.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report (in English);
· NCL Bulletin (quarterly, in English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

ORGANISATION CHART



<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
National Institute of Oceanography</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Council of Scientific & Industrial Research, New Delhi</td><td>Director or Office name :
Dr. B. N. Desai, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 46253-56
Facsimile : 0832-4612
Telex : 0194216-NIO IN</td></tr>
<tr><td>Mailing address :
Dona Paula 403 004, Goa, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:220
supportion professionals : 242
Technicians : 90
Others : 75
Total : 627</td><td>Founding year :
1966.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">exploration of living resources of the sea, sea farming technology, deep sea exploration for minerals, bioactive substances from marine plants and animals, coastal zone management, monitoring of marine pollution, marine corrosion and biofouling, marine archaeology, Antarctic oceanography, marine instrumentation, remote sensing and acoustic tomography marine geophysics, ocean engineering, ocean climate. NIO research activities are carried out by ten Divisions and three Regional Centres: 1) Physical Oceanography Division; 2) Chemical Oceanography Division; 3) Biological Oceanography Division; 4) Geological Oceanography Division; 5) Ocean Engineering Division; 6) Marine Instrumentation and Computer Division; 7) Training Division; 8) Data and Information Division; 9) Marine Corrosion & Materials Research; 10) Publication & Reprography Division; 11) Regional Centre, Cochin; 12) Regional Centre, Bombay; and 13) Regional Centre, Waltair.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· NIO Newsletter (quarterly in English.);
· Annual Report (in English.);
· Collected Reprints (annually in English);.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
NIO Ocean Engineering Division</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. B. U. Nayak, Head of Division</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Dona Paula 403 004, Goa, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others :
Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Principal areas of research interest include: environmental data collection and analysis for obtaining design parameters; measures to control coastal erosion; stability of tidal inlets and hydrodynamics of estuaries; design, construction, and maintenance of coastal outfalls and seawater intakes; numerical techniques for storm surge computation, wave hind-casting, current and wave data analysis, computation of tidal currents, salt water intrusion studies, and pollutant dispersion; coastal and harbor structures; development of instrument mooring systems; marine geotechnical engineering analysis on pipeline stability, and coastal and offshore structures; seabed soil sampling techniques and laboratory testing and feasibility studies on extraction of energy from the sea.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Hydraulics

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Regional Research Laboratory,
Bhubaneswar</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. H.S. Ray, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 51126
Facsimile :
Telex : 0675-275</td></tr>
<tr><td>Mailing address :
Bhubaneswar 751 013, Orissa, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:119
supportion professionals :
Technicians : 142
Others :
Total : 261</td><td>Founding year :
1964.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Mineralogy and metallography, mineral beneficiation, pyrometallurgy, hydro- and electrometallurgy, special materials, design and project engineering, inorganic chemicals, forest and marine products, and aromatic and medicinal plants.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Regional Research Laboratory, Jorhat</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Council of Scientific and Industrial Research (CSIR),</td><td>Director or Office name :
Dr. J. N. Baruah, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 20353
Facsimile :
Telex : 287204</td></tr>
<tr><td>Mailing address :
Jorhat 785 006, Assam, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:164
supportion professionals : 290
Technicians :
Others : 147
Total : 601</td><td>Founding year :
1959.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Laboratory's scientific and industrial research and development program includes studies in analytical chemistry, biochemistry, organic and inorganic chemistry, coal, petroleum and natural gas, paper and board, medicinal and economic plants, geoscience, applied civil engineering, chemical engineering, and general engineering. In addition to its own research programs, Laboratory conducts sponsored research projects and provides a variety of services to public and private agencies.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Report and RRL News (monthly); both in English.</td></tr>
<tr><td>Additional information</td><td colspan="2">Maintains a branch laboratory at Itanagar (Arunachal Pradesh) and substations at Vill. Yaoungyimsen (Nagaland), Upper Shillong (Meghalaya), Mantripukhuri (Manipur), and P.O. Sepahijala (Tripura West).</td></tr>
</table>

Category : Others

Organization name	Institute name : Research Designs and Standards Organisation	Section name :
	Parent organization name : the Ministry of Railways,	Director or Office name : O.P. Jain, Director-General
Address information	Country name : India	
	Mailing address : Lucknow 226 011, Uttar Pradesh, India	Telephone : 50017 Facsimile : Telex :
Organization description	Number of people research professionals:491 supportion professionals : 2205 Technicians : Others : 1511 Total : 4207	Founding year : 1957
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Organisation is concerned with design and standardization of all¥ railway assets. Its activities include research and development, service engineering, technical liaison and inspection services, and advisory and consultation services on railway technology. Areas of research interest include railway architecture, civil engineering, electrical systems, traction installation, motive power, engine development, railway and traffic systems, metallurgy and chemistry, and other areas related to the design and standardization of railways.	
Research activities	Holds seminars and training workshops on an regular basis.	
Publications	· Indian Railway Technical Bulletin (quarterly); · Documentation Notes (bimonthly).	
Additional information		

Category : Transportation

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Structural Engineering Research Centre</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. S. P. Sharma, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : India</td><td rowspan="2">Telephone : 2480
Facsimile :
Telex : 0597204</td></tr>
<tr><td>Mailing address :
Roorkee 247 667, Uttar Pradesh, India</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:33
supportion professionals : 6
Technicians : 40
Others : 56
Total : 145</td><td>Founding year :
1965.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Centre conducts research and development in specialized design and structural problems of bridges, multistory structures, and underground structures. Specific areas of study include plain and reinforced concrete, prestressed concrete, ferro-cement technology, and computer software development.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report (in English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Structure

Organization name	Institute name : Thapar Corporate Research and Development Centre	Section name :
	Parent organization name : the Thapar Group.	Director or Office name : Prof. T. R. Anantharaman,Director
Address information	Country name : India	Telephone:(175)78783 Facsimile : Telex : 394207
	Mailing address : Patiala 147 001, Punjab, India	
Organization description	Number of people research professionals:20 supportion professionals : 5 Technicians : 9 Others : 40 Total : 74	Founding year : 1983.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Centre conducts research in chemical and biochemical engineering, materials science, energy systems and conservation, and computers and mechanics.	
Research activities		
Publications		
Additional information		

Category : Material

ABSTRACT

OF

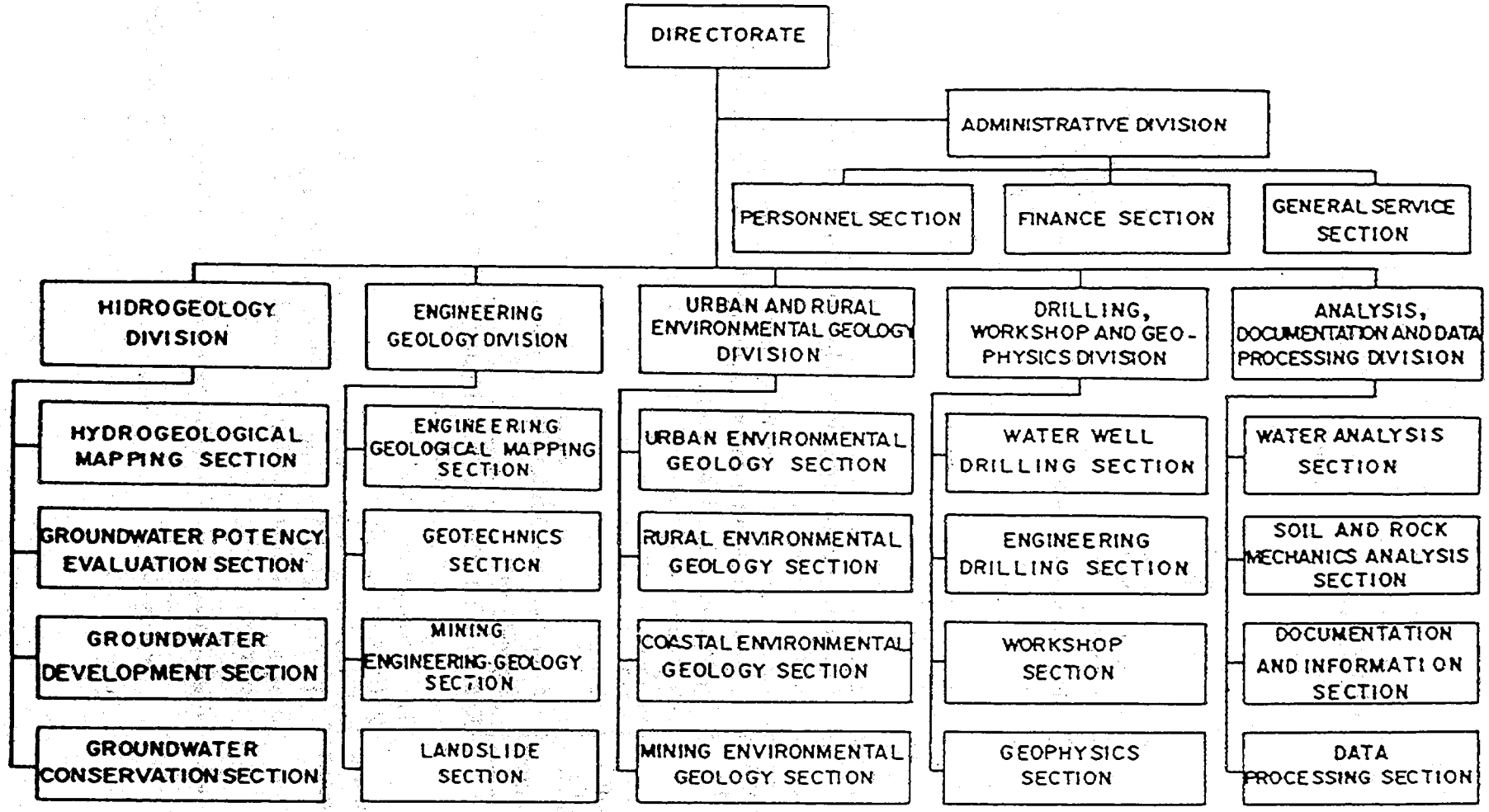
INSTITUTE

Indonesia

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Directorate of Environmental Geology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Directorate General of Geology and Mineral Resources</td><td>Director or Office name :
P. H. Silitonga, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Indonesia</td><td rowspan="2">Telephone : (022)703205
Facsimile : (022)74767
Telex : 28760 DGTIA</td></tr>
<tr><td>Mailing address :
Jalan Diponegoro 57
Bandung, Indonesia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:114
supportion professionals : 76
Technicians : 209
Others : 173
Total : 572</td><td>Founding year :
1978.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) to acquire applied geologic and hydrogeologic information from field and laboratory studies;
2) to offer advice on means of mitigating natural hazards;
3) to disseminate information on the application of earth science to urban and regional planning;
4) to support engineers and builders in the evaluation of sites for civil engineering construction.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Bulletin of the Directorate of Environmental Geology (in English and Indonesian).</td></tr>
<tr><td>Additional information</td><td colspan="2">Research activities are carried out in DEG's technical divisions and two supporting technical divisions:
1) Hydrogeology Division;
2) Engineering Geology Division;
3) Urban and Rural Environmental Geology Division;
4) Drilling, Workshop, and Geophysics Division;
5) Analysis, Documentation and Data Processing Division (see separate entries).</td></tr>
</table>

Category : Geology

FIG. 3 ORGANIZATION CHART OF ENVIRONMENTAL GEOLOGY



Organization name	Institute name : DEG Drilling, Workshop, and Geophysics Directory	Section name :
	Parent organization name :	Director or Office name :
Address information	Country name :	Telephone : (22) 73205 Facsimile : Telex :
	Mailing address : Jalan Diponegoro 57^P.O. Box 471! Bandung, Indonesia	
Organization description	Number of people research professionals: supportion professionals : Technicians : Others : Total :	Founding year : Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division's principal functions are: 1) to conduct churn, rotary, and core drilling to suppot engineering geologic and hydrogeologic research and groundwate rmanagement and conservation programs; 2) to carry out geophysical investigations and well logging in support of technical programs; 3) to offer guidance in drilling techniques to water-well drilling contractors.	
Research activities		
Publications		
Additional information		

Category : Geology

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
DEG Engineering Geology Division</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Indonesia</td><td rowspan="2">Telephone : (22) 73205
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Jalan Diponegoro 57
Bandung, Indonesia</td></tr>
<tr><td rowspan="2">Organizatin description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others : Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) regional mapping, emphasizing geologic and geomorphic aspects detrimental to future civil engineering construction projects or hazardous to areas of planned development;
2) mapping and evaluating specific construction sites, advising engineers of potential foundation problems and offering alternative sitings to reduce exposure to natural hazards;
3) mapping landslide-prone areas, conducting research on landslide morphology, scale, rates, and patterns of movements, and providing advice on methods of landslide mitigation.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

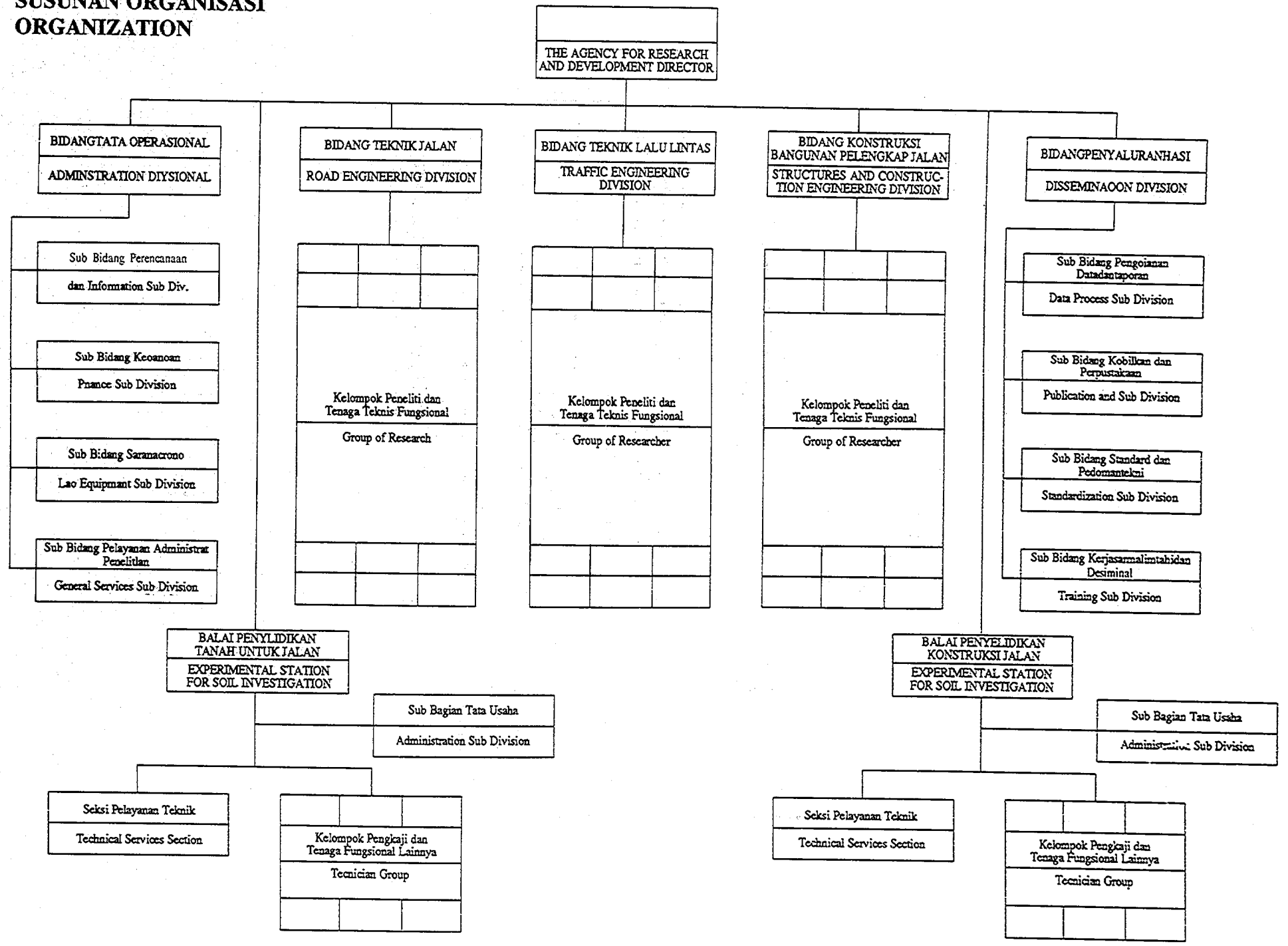
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Forest Products Research and Development Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Dr. Nana Supriana, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Indonesia</td><td rowspan="2">Telephone : (251) 326458
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
16001 Bogor, Indonesia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals:79
supportion professionals : 40
Technicians : 94
Others : 73
Total : 286</td><td>Founding year :
1971.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1)wood anatomy, biodeterioration, and preservation
2) wood physics and engineering, wood drying, sawmilling, and composite products;
3) wood chemistry and energy, fiber technology, and minor forest products
4) wood transportation, and forest engineering, harvesting, and ergonomics;
5) forest management, marketing, and socioeconomics
6) Center also serves as an advisory body to logging companies and forest products industries.</td></tr>
<tr><td>Research activities</td><td colspan="2">Holds exhibitions, seminars, and demonstrations regularly.</td></tr>
<tr><td>Publications</td><td colspan="2">· Forest Products Research Journal;
· Research Notes.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Institute of Human Settlements	Section name :
	Parent organization name : the Agency for Research and Development, Ministry of Public Works	Director or Office name :
Address information	Country name : Indonesia	Telephone : (22) 81082 Facsimile : Telex : 28327
	Mailing address : 40132 Bandung, West Java, Indonesia!	
Organization description	Number of people research professionals:12 supportion professionals : 61 Technicians : 38 Others : 242 Total:353	Founding year : 1953.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	nstitute carries out a research and development program on human settlements. Specific areas of interest are: 1) water purification; 2) sanitation; 3) construction of low cost housing; 4) infrastructure regulation and development of housing physics.	
Research activities		
Publications	· Masalah Bangunan (quarterly, in English); · Journal Penelitian Pemukiman (monthly, in Indonesian); · Infobang (monthly, in Indonesian).	
Additional information	Institute maintains an Experimental Station for Sanitary Engineering and an Experimental Station for Housing and Building, as well as a center for Technical Cooperation among Developing Countries (TCDC) for the United Nations.	

Category : Planning

SUSUNAN ORGANISASI
ORGANIZATION



Organization name	Institute name : Institute of Road Engineering	Section name :
	Parent organization name :	Director or Office name : Mr.H.A.B.Hasibuan,Director
address information	Contry name : Indonesia	Telephone : (022) 708251 Facsimile : (022) 78052 Telex : 28377 PPPj bd
	Mailing address : 264 Jalan Raya Timur Bandung, Indonesia	
Organization Description	Number of people research professionals:66 supportion professional : 47 Technicians : 141 Others : 244 Total : 498	Founding year : 1925.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute conducts research in the field of road engineering, traffic and transportation, and structures.	
Research activities	Holds a conference on road engineering (on an annual basis, November-December) for road engineers, technicians, civil engineers, and consultants.	
Publications	· Jurnal Puslitbang Jalan (quarterly); · Abstract Journal (quarterly).	
Additonal information		

Category : Transportation

Organization name	Institute name : Laboratory and Testing Institute for Industrial Products	Section name :
	Parent organization name :	Director or Office name : Dr. Muchsin Azad, Director
Address information	Country name : Indonesia	
	Mailing address : Jalan Ki Mangunsarkoro 6 Semarang, Indonesia	Telephone : (24) 316315 Facsimile : Telex :
Organization description	Number of people research professionals:27 supportion professionals : 46 Technicians : 39 Others : 22 Total : 134	Founding year : 1963.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) testing, quality inspection, and standardization of industrial raw materials and products; 2) research and development in design and engineering, especially for small-scale industry. 3) Specific areas of interest include improvement of industrial products and processes for food and animal feed industries and building materials industry, 4)industrial water and air pollution control.	
Research activities	Holds seminars twice a year on industrial quality inspection and standardization, and wastewater and pollution control.	
Publications	· Warta Balai Industri Semarang (quarterly).	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Research and Development Center for Geotechnology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mr. Suparka, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Indonesia</td><td rowspan="2">Telephone : (022) 83654
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
40135 Bandung, Indonesia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:73
Technicians : 85
Administative profeessionals:58
Total : 216</td><td>Founding year :
1963.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Center's research and development program in geotechnology involves studies in non-biological natural resources, including mineral resources (both on- and offshore), surface and groundwater resources,land and soil resources, and non-conventional energy resources (geothermal, tidal energy, etc.). Center also provides scientific and technological services in the fields of mineral, geothermal, and hydrocarbon exploration, exploration and management of groundwater resources, regional development planning, and environmental impact analysis.</td></tr>
<tr><td>Research activities</td><td colspan="2">Provides scientific and technologcial services.</td></tr>
<tr><td>Publications</td><td colspan="2">· Riset Geologi dan Pertambangan (twice per year, in Indonesian).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

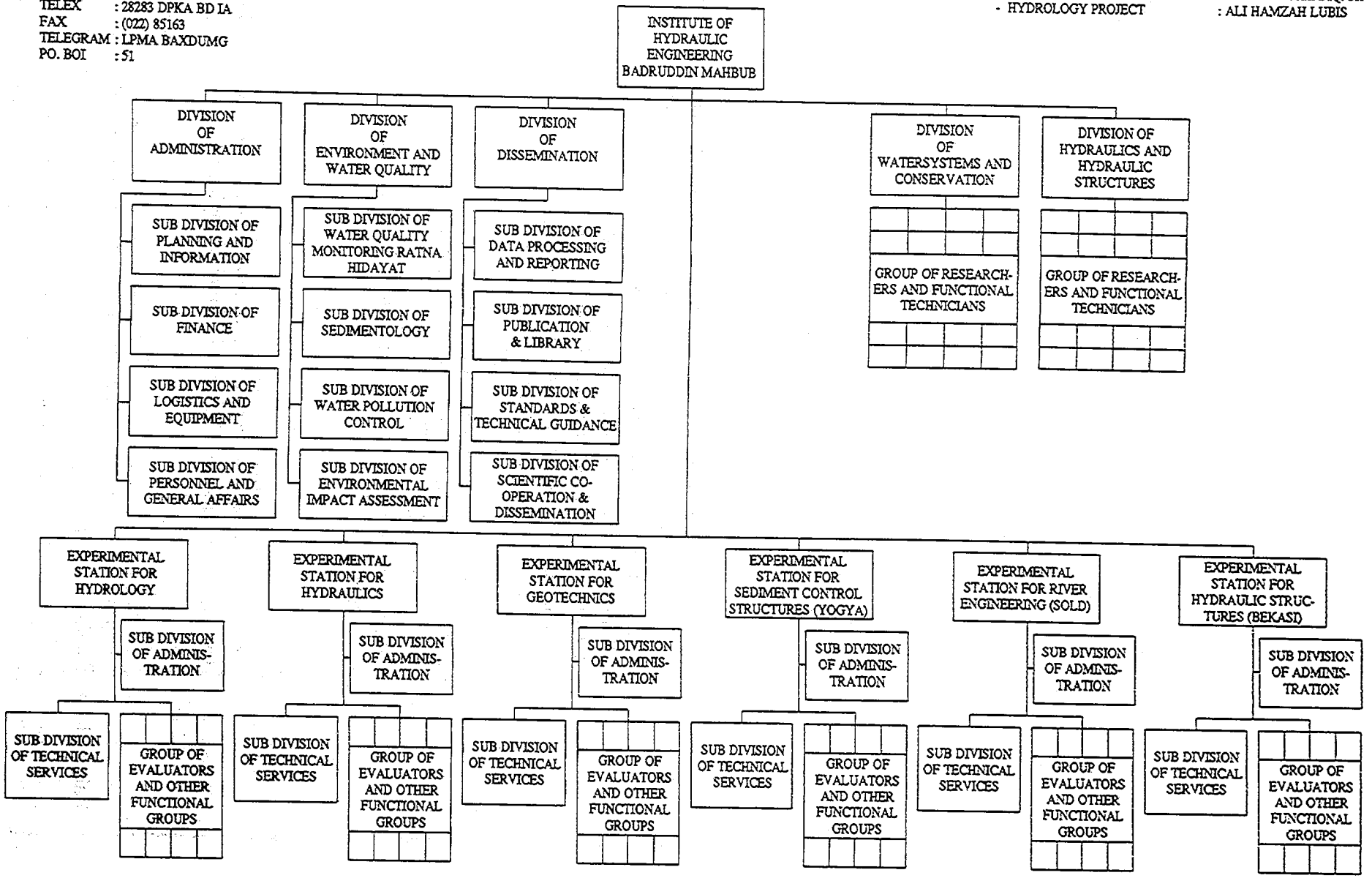
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Research Institute for Water Resources Development</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
The Agency for Research and Development,Ministry of Public Works</td><td>Director or Office name :
Badruddin Mahbub Dipl.SE, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Indonesia</td><td rowspan="2">Telephone : (22) 81607
Facsimile : (22) 85163 Telex : TX-28283</td></tr>
<tr><td>Mailing address :
40135 Bandung, Indonesia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:71
supportion professionals : 166
Technicians : 256
Others : 204
Total: 697</td><td>Founding year :
1966.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute supports, coordinates, and implements research and development programs in the field of hydraulic engineering. Research activities are carried out in three divisions and six experimental stations:
1) Division of Hydraulics and Hydraulic Structures;
2) Division of Conservation and Water System;
3) Division of Environment and Water Quality;
4) Experiment Station for Hydrology;
5) Experiment Station for Hydraulics;
6) Experiment Station for Geotechniques;
7) Experiment Station for Sediment Control;
8) Experiment Station for Rivers;
9) Experiment Station for Construction of Hydraulic Structures.</td></tr>
<tr><td>Research activities</td><td colspan="2">Sponsors seminars on water resource development (two to three times per year, between June and December) for civil engineers.</td></tr>
<tr><td>Publications</td><td colspan="2">· Jurnal Penelitian dan Pengembangan Pengairan (quarterly, in Indonesian and English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

MINISTRY OF PUBLIC WORKS
AGENCY FOR RESEARCH AND DEVELOPMENT

ORGANIZATION SCHEME

JL. Ir. M. JUAKDA 193 BAKDUMG 40133, INDONESIA
PHONE : (022) 81607/84553/84554
TELEX : 28283 DPKA BD IA
FAX : (022) 85163
TELEGRAM : LPMA BAXDUMG
PO. BOI : 51

PROJECTS:
- HYDRAULIC ENGINEERING RESEARCH PROJECT : SQUESMARJAXTO SCESMOKO
- RESEARCH OF WATER RESCURCES ENVIRONMENT PROJECT : ACKOJAR SHIDDIQ. SH
- HYDROLOGY PROJECT : ALI HAMZAH LUBIS



<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Rural Development Studies Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
T. Dahril, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Indonesia</td><td rowspan="2">Telephone :
Facsimile :
Telex :</td></tr>
<tr><td>Mailing address :
Pekanbaru, Riau, Indonesia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others : Total :</td><td>Founding year :
1981.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Center's research program in agriculture includes studies in drainage and irrigation, crop husbandry, livestock husbandry and nutrition, and agricultural engineering and building. Center also carries out studies in aquaculture, and agricultural and rural economics.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Pembangunan Desa (annually)
· Pedesaan (quarterly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Agricalture

ABSTRACT

OF

INSTITUTE

Iran

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Biochemical and Bioenvironmental Research Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Sharif University of Technology.</td><td>Director or Office name :
Dr. Seyd Mehdi Borghei, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Iran</td><td rowspan="2">Telephone : 905417
Facsimile :
Telex : 212882 UTIR</td></tr>
<tr><td>Mailing address :
Azadi Ave. P.O. Box 11365-6891
Tehran, Iran</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 7
Supportion professionals : 3
Technicians : 6
Others : 4
Total : 20</td><td>Founding year :
1971</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Principal fields of research interest include biochemical engineering, environmental science, water and wastewater engineering, ecology, industrial fermentation, biotechnology, food science, food preparation, and microbiology.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published in journals and research reports.
Meetings/Educational Activities: Holds conferences (irregularly).</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

Organization name	Institute name : Building and Housing Research Center	Section name :
	Parent organization name : the Ministry of Housing and Urban Development	Director or Office name : Mr. M. Mousavi, Director
Address information	Country name : Iran	Telephone : (21) 985942 Facsimile : Telex : 212117
	Mailing address : P.O. Box 13145-1696 Tehran, Iran	
Organization description	Number of people research professionals : 40 supporting professionals : 10 technicians : 10 others : 70 Total : 130	Founding year : 1973
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Center promotes and coordinates research in the areas of building and housing. Principal areas of interest include: construction technology; construction methods; socioculturual aspects of housing; building systems and materials; settlement and housing production methods; building physics; civil engineering; architecture; earthquake engineering; energy; and acoustics.	
Research activities	Research results published in research reports.	
Publications		
Additional information		

Category : Structure

Organization name	Institute name : Department of the Environment	Section name :
	Parent organization name : responsible to the President's Office	Director or Office name : Dr. Hadi Manafi, Director
Address information	Country name : Iran	Telephone : (62) 492414 Facsimile : (62) 491884 Telex : 10719236
	Mailing address : P.O. Box 5181-15875 Tehran, Iran	
Organization description	Number of people Research professionals : 700 Supporting professionals : 300 Technicians : 100 Others : 1900 Total : 3000	Founding year : 1956
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Objectives of the Department are: 1) to coordinate the policies and strategies of economic, social, and cultural programs with the general policies of environmental preservation; 2) to study environmental problems; 3) to investigate the standards and functions of the ecosystem in Iran; 4) to prepare standards and criteria for prevention of harmful environmental effects by development activities; 5) to supervise the regulation of environmental standards and criteria; 6) to educate the public about the importance of environmental preservation; 7) to establish regional and international relationships in order to utilize the achievements and experiences of other nations with regard to the environment; and 8) to demonstrate the importance of the environment in relation to the religious standards of the Moslem people. Activities of the Department include research related to the control and abatement of environmental pollution, as well as natural resources management.	
Research activities	Research results published in research reports. Meetings/Educational Activities: Sponsors training seminars for new personnel and seminars on waste management and impact assessment. Library: 10,000 volumes in science, technology, and agriculture.	
Publications	· Bulletins (monthly, in Persian); · brochures about protected areas; · air pollution statistics.	
Additional information	Department has a head office in Tehran and 26 provincial offices in major cities of Iran. Each provincial office has several branches in small towns and rural areas.	

Category : Environment

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Research Institute of Petroleum Industry</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Integral unit of Ministry of Petroleum</td><td>Director or Office name :
A. R. Kazazi, Head of Scientific Information</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Iran</td><td rowspan="2">Telephone : 591041
Facsimile : 6153397
Telex : 215792</td></tr>
<tr><td>Mailing address :
P.O. Box 1863 Taleghani Ave.
Tehran, Iran</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 330
Supporting professionals : 100
Technicians : 70
Others : 200
Total : 700</td><td>Founding year :
1958</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Center conducts research in petroleum technology. Areas of interest include application of petroleum products in agriculture, bitumen and road construction, catalyst, chemical and petrochemical products, core analysis, corrosion, crude oil and separation methods, detail engineering, development engineering, drilling fluid and cement, environmental pollution, fuel and combustion, geophysics, instrumentation, lube additives and inhibitors, lubricants and grease, pesticides and fertilizers, pilot plant construction and operation, process engineering, safety engineering, solvents, and wastewater treatment. Center also provides training and technical services.
Petroleum and petroleum technology¦Coal¦Petrochemistry¦Fuels¦Energy resources¦Geophysics¦Lubricants¦Fertilizers¦Pesticides</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published in research reports.
Meetings/Educational Activities: Holds special programs.</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Safiabad Agricultural Research Center	Section name :
	Parent organization name : James Cook University	Director or Office name : Ahmad Shaker Zadeh, Director
Address information	Country name : Iran	Telephone : Facsimile : Telex : 7917
	Mailing address : Safiabad P.O. Box 333 Dezful, Iran	
Organization description	Number of people Research professionals : 4 Supporting professionals : 11 Technicians : 41 Others : 283 Total : 339	Founding year : 1962
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Center conducts research on: 1) field crops, including studies on food and feed grains, forage crops, fiber crops, oilseeds, edible legumes, and sugar beets; 2) horticultural crops, including studies on vegetables, fruit trees (citrus and deciduous orchards, grapes, and nut trees), and non-fruit trees (eucalyptus, etc.); 3) agricultural engineering and farm management; 4) soils and irrigation, including studies on plant nutrition and crop water, soil and water analysis and classification, and seed/plant technology for quality control; 5) crop pest and disease control, including studies on the effects of herbicides and insecticides and their applications, and diagnostic methods for determining plant diseases and pests; and 6) livestock, including studies on breed selection of sheep, cattle, and poultry, nutritional studies on meat, milk, and egg production, and investigations into methods of disease control.	
Research activities	Meetings/Educational Activities: Offers regional agricultural research meetings, seminars, personnel training programs, field demonstrations, and extension services.	
Publications	· Research Progress Reports and Final Reports.	
Additional information		

Category : Agriculture

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Solar Energy Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Engineering School of Shiraz University.</td><td>Director or Office name :
Associate Prof. M. A. Yaghoubi, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Iran</td><td rowspan="2">Telephone : (71) 51001
Facsimile :
Telex :</td></tr>
<tr><td>Mailing address :
Department of Mechanical Engineering School of Engineering Shiraz University Shiraz, Iran</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 3
Supporting professionals : 2
Technicians : 2
Others : 2
Total : 9</td><td>Founding year :
1976</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Center's research and development program includes studies in solar energy and radiation, passive heating and cooling, wind energy utilization, and photovoltaics.
Solar energy!Wind energy!Solar radiation!Solar heating!Refrigeration and air conditioning</td></tr>
<tr><td>Research activities</td><td colspan="2">Research findings are published in primary journals, and as research reports and conference proceedings.</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Technical and Soil Mechanics Lab.	Section name :
	Parent organization name : the Ministry of Roads and Transport	Director or Office name : M. R. Barzegar, Director
Address information	Country name : Iran	Telephone : (21) 6300315 Facsimile : (21) 6907825 Telex :
	Mailing address : North Kargar Ave. P.O. Box 11365-1847 Tehran, Iran	
Organization description	Number of people Research professionals : 17 Supporting professionals : 95 Technicians : 302 Others : 335 Total : 749	Founding year : 1963
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Laboratory's research and training program includes studies in soil mechanics and foundations, geotechnical engineering and field investigation, pavement materials, and engineering properties of construction materials such as cement, bricks, metals, beton (concrete), asphalt, and bitumen.	
Research activities	Research results published in research reports. Meetings/Educational Activities: Sponsors training programs on concrete, soil mechanics, and asphalts.	
Publications	· Soil Mechanics.	
Additional information		

Category : Others

ABSTRACT

OF

INSTITUTE

Korea

Korea - 1

Organization name	Institute name : Korea Institute of Science and Technology	Section name :
	Parent organization name : Korea Advanced Institute of Science .	Director or Office name : Won Hee Park President
Address information	Country name : Korea	Telephone : (02)962-8801 Facsimile : (02)963-4013 Telex : K27380
	Mailing address : P.O. Box 131 Cheongryang Seoul Korea	
Organization description	Number of people research professionals : 45 supportion professionals : 457 Technicians: 745 Others: 93 Total : 1340	Founding year : 1966.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Developing creative and innovative original seed technologies, performing large-scale national projects, carrying out basic and applied research & development, rendering R & D services to the industry and to other research organezations	
Research activities	Metal, Ceramecs, Polymer Science and Engineering, Chemistry, Mechanial Engineering, chemical Engineering, Applied Physics and Electronics, Doping Control Center, Research Planning	
Publications		
Additional information		

Category : Others

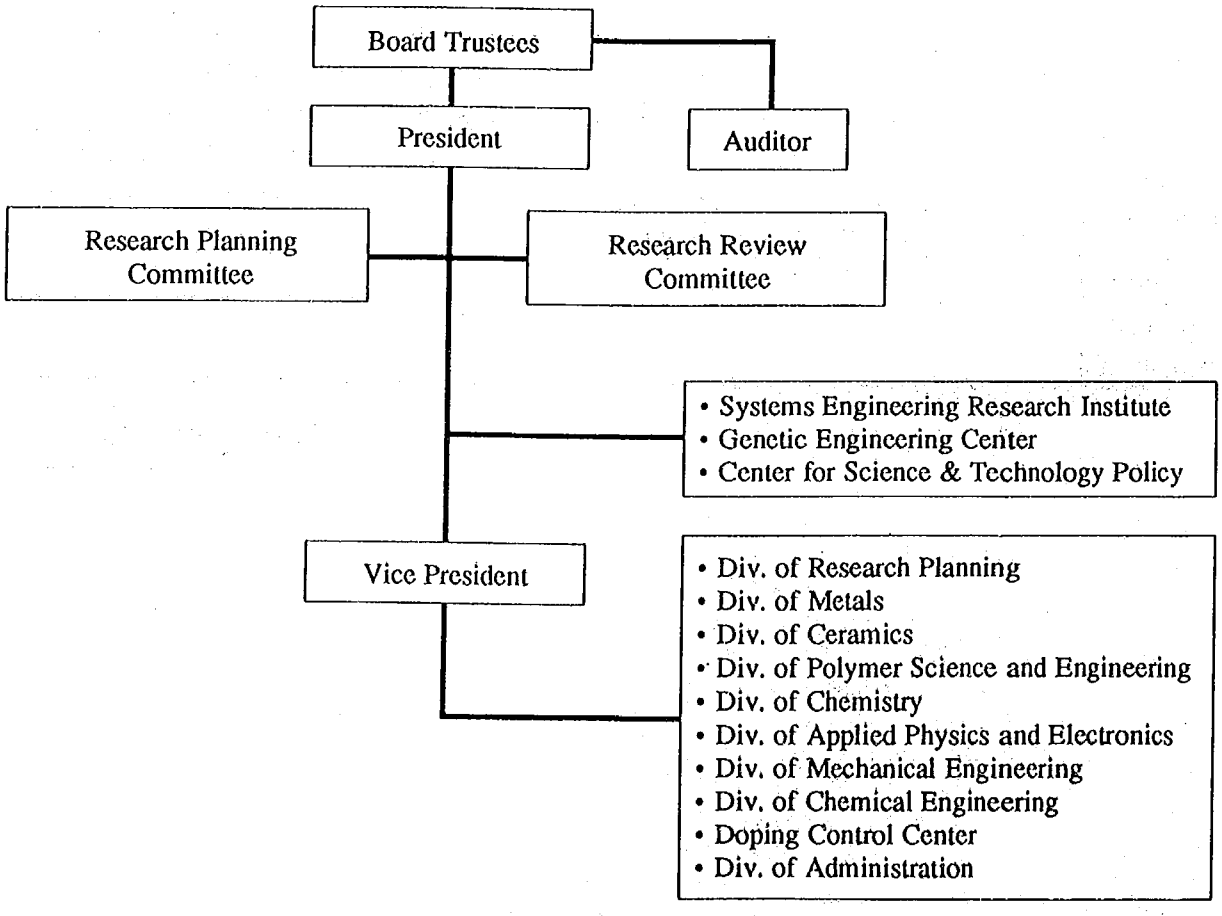
General Information

Personnel

as of June, 1990

	KIST	Affiliated Institute			Total
		SERI	GEC	CSTP	
Executive	2	—	—	—	2
Researcher	407	177	129	32	745
Engineer	18	11	13	3	45
Administration	47	24	16	6	93
Support Staff	275	150	30	2	457
Total	749	362	188	43	1342

Organization

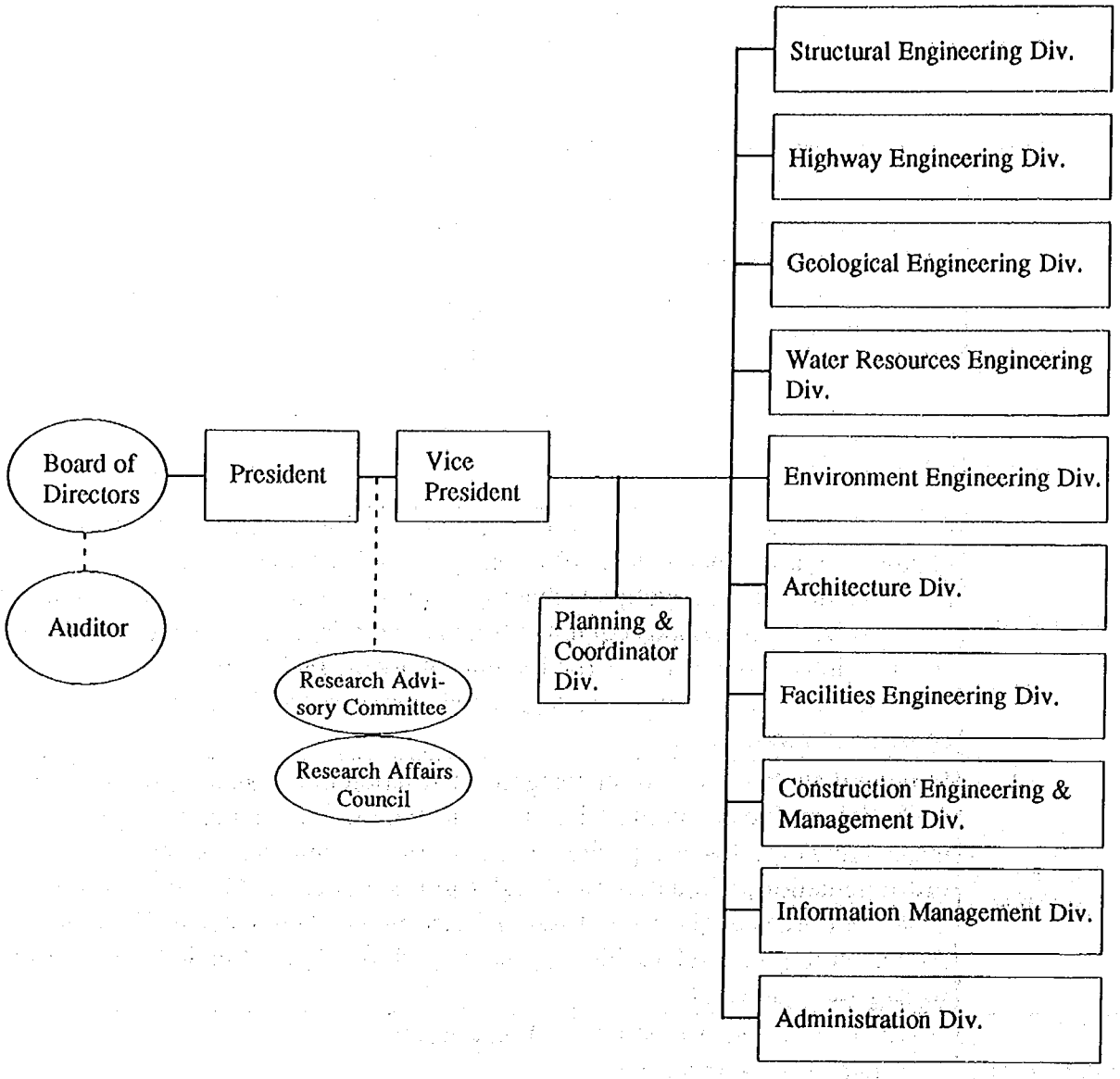


As a special matrix system operation, a few mission oriented research units in fields such as advanced material science, mechatronics, applied and basic engineering science are being launched strategically, through which the related researchers from different laboratories can join in performing the large scale national projects.

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Korea Institute of Construction</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
.</td><td>Director or Office name :
Lee, Yun Sik President</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Korea</td><td rowspan="2">Telephone : (02)577-5006
Facsimile : (02)572-8998
Telex : KICTEX K288789</td></tr>
<tr><td>Mailing address :
142,umyon-dong, socho-gu, seoul,
137-140 republic of korea</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals :
supportion professionals :
Technicians:
Others:
Total : .</td><td>Founding year :
1983.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Research and development of construction technologies,Research and dissemination of advanced construction technologies, Systematic acquisition, management and dissemination of construction technology information,Research and development of new construction methods equipments and materials, Research and development in construction design and construction management, Technical service & consulting activities on construction technologies, Other research activities to promote the construction industry</td></tr>
<tr><td>Research activities</td><td colspan="2">Structural analysis,Structural design,Construction materials,Highway design methodology,Pavement materials and tests,Highway maintenance and management,Highway capacity and safety,Investigations tests and instrumentation,Foundations and underground structures,Ground improvements, Water resources engineering division,Environmental engineering division, Architecture division,Facilities engineering division,Construction engineering & management divesion</td></tr>
<tr><td>Publications</td><td colspan="2">· KICT monthly, "Construction Technology"
· Annual research report
· Annual KICT union catalogue of technical information</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Structure

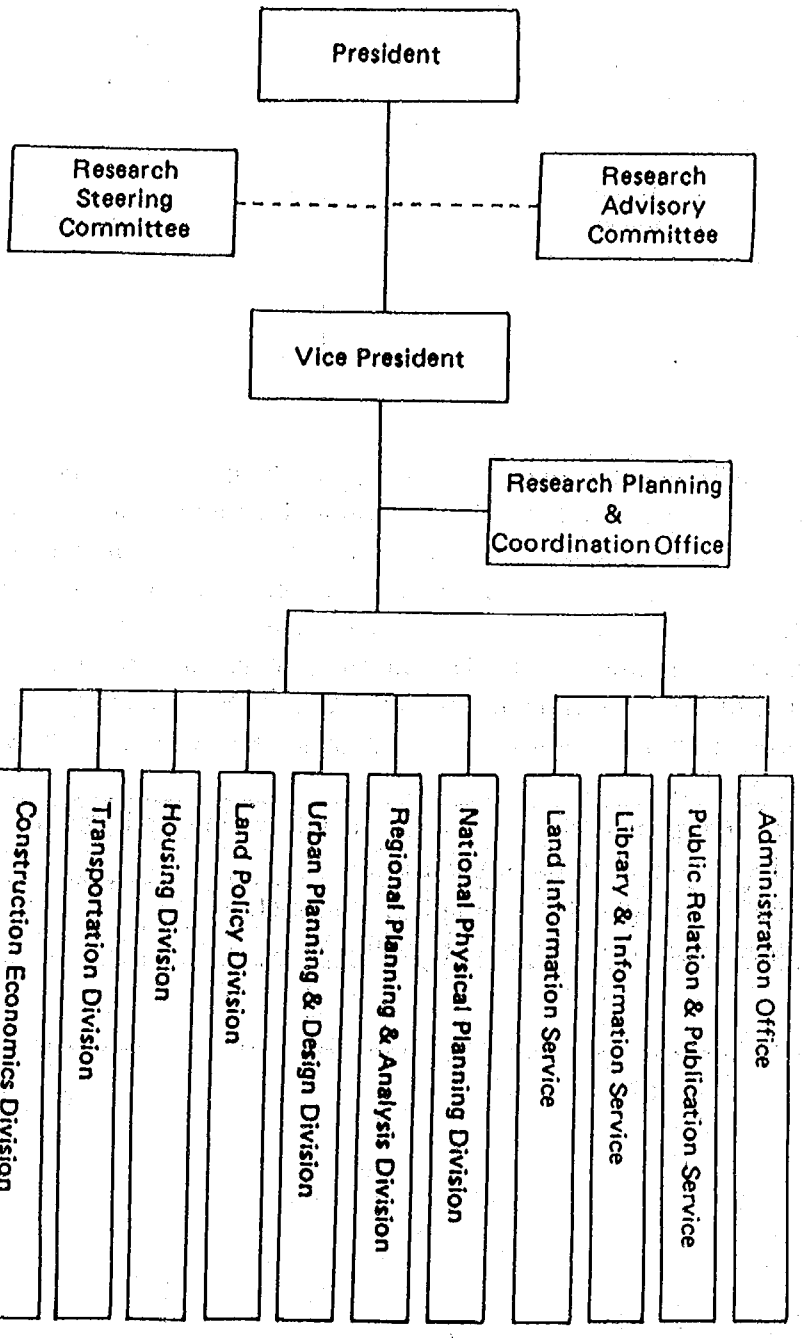
Organization



<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Korea Research Institute for Human Settlements</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Huh, Jai Young President</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Korea
Mailing address :
27-2 Youido-dong, Yongdungpo-gu,
Seoul 150-010, Korea</td><td>Telephone : (02)784-2560
Facsimile : (02)785-4519
Telex : KRIHS</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
research professionals : 197
supportion professionals :
Technicians:
Others:
Total : .197</td><td>Founding year :
1978.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Improve knowledge and understanding of the conditions and problems of the nation's resources and their interaction with people;Assist the government in formulating long-range development plans and make policy recommendation on related matters; Cooperate with the academic circle in solving theoretical and practical problems concerning human settlementissues and planning; Develop and maintain a data bank containing up-to-date information and statistics on national land resources for use by the government,scholars and the general public; Collect and disseminate significant findings of research at home ane abroad as they relate to land management and planning;</td></tr>
<tr><td>Research activities</td><td colspan="2">theory and methodology development and various policyoriented analysis applicable to critical evaluation of public issues</td></tr>
<tr><td>Publications</td><td colspan="2">· The Korea Spatial Planning Review (quality)
· Land Information Bulletin (monthly)</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Planning

ORGANIZATION



ABSTRACT

OF

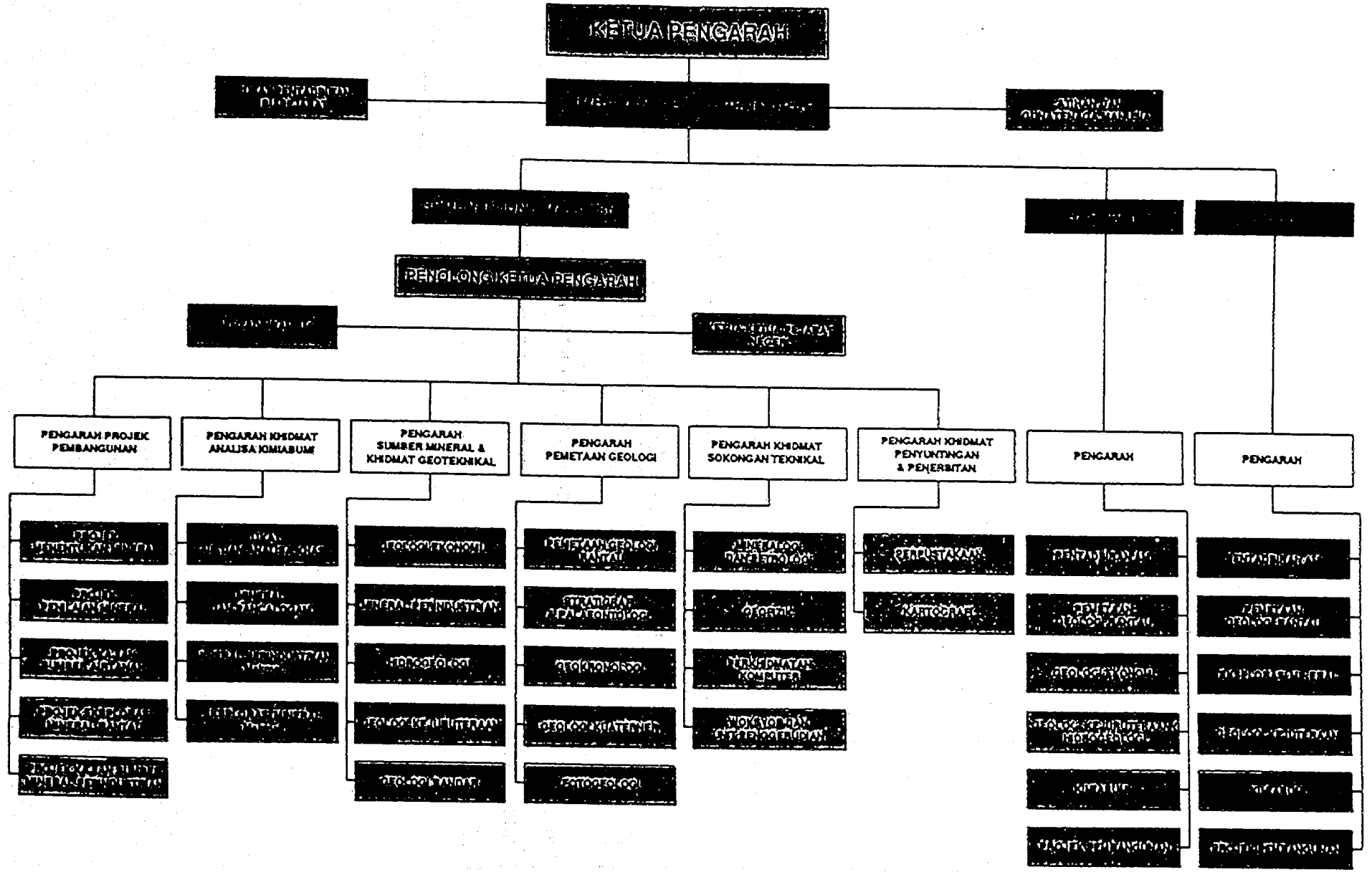
INSTITUTE

Malaysia

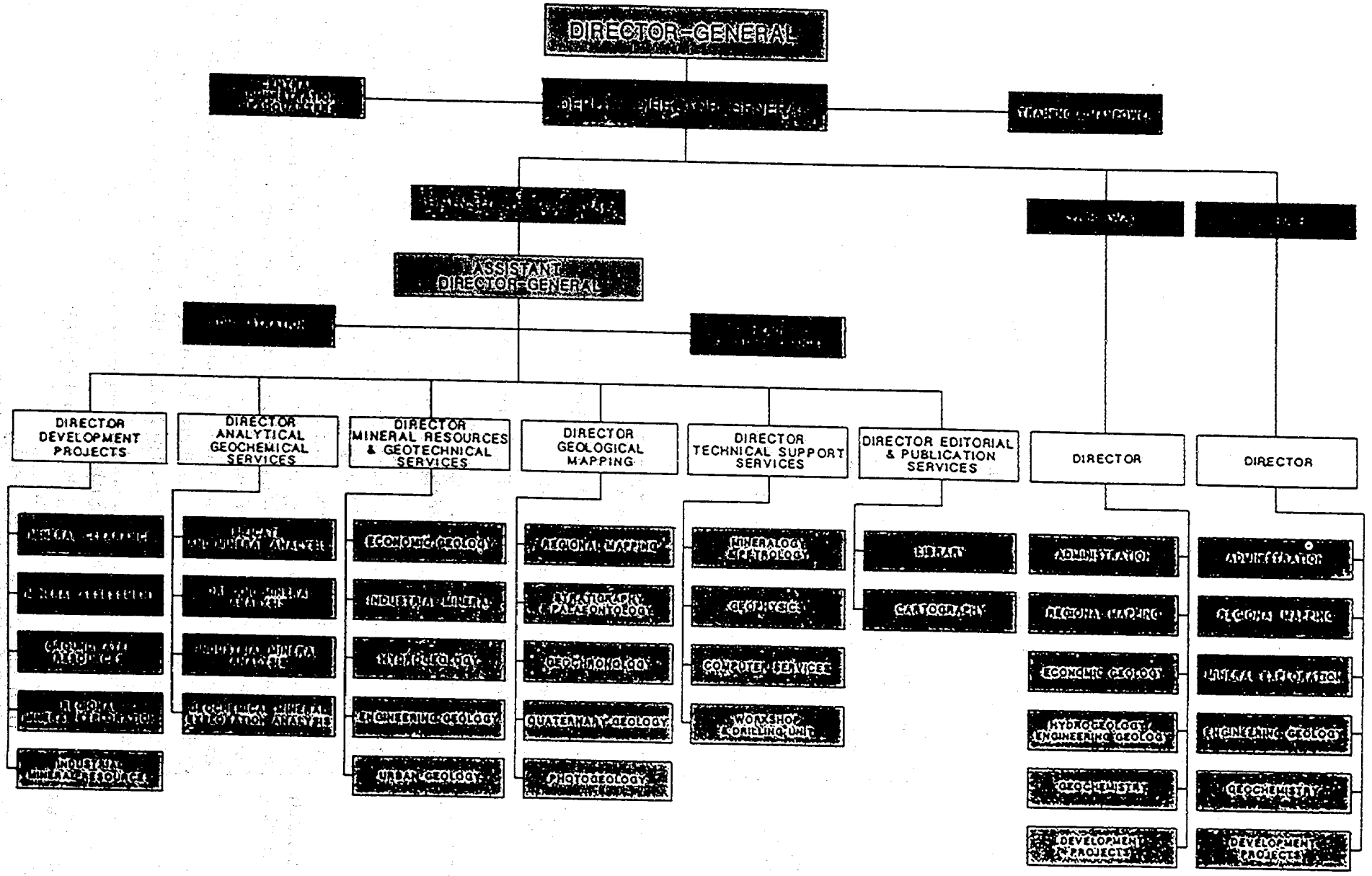
Organization name	Institute name : Asian and Pacific Development Center	Section name :
	Parent organization name :	Director or Office name : Prof. Suk-Bum Yoon, Director
Address information	Country name : Malaysia	Telephone : (3) 2548088 Facsimile : (3) 2550316 Telex : 30676
	Mailing address : 50770 Kuala Lumpur	
Organization description	Number of people research professionals: 11 supportion professionals : 15 Technicians : Others : 47 Total : 73	Founding year : 1980
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) poverty 2) development of national institutions to effect change 3) policy-making 4) Asian-Pacific region and the changing world environment.	
Research activities		
Publications	· APDC Newsletter (quarterly, in English).	
Additional information		

Category : Others

ORGANISASI JABATAN PENYIASATAN KAJIBUMI



Organizatin name	Institute name : Geological Survey of Malaysia	Section name :
	Parent organization name : Ministry of Primary Industries	Director or Office name : Ee Heng Yin Director—General
Address information	Country name : Malaysia	
	Mailing address : P.O.BOX 11110 50736 Kuala Lumpur, Malaysia	Telephone : 2611033 Facsimile : 2611036 Telex : MA 30808 GEOL
Organizatin description	Number of people research professionals:155 supportion professionals : 238 Technicians : 276 Others : Total : 669	Founding year : 1903
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) provide geoscientific data, 2) mineral resource inventory and geological services for national planning and development, 3) promote investments in the mineral industry.	
Research activities	1) systematic geological mapping 2) exploration for minerals other than petroleum and gas 3) engineering geology investigations 4)investigation and development of groundwater resources 5)preparation of thematic maps such as geological, geochemical, hydrogeological, geophysical and mineral resources maps; 6) analytical services, such as analyses of rocks, minerals, ores, alloys and water, and physical testing of rocks, gemstones and industrial minerals 7) provision of advisory services to federal and state government agencies on policies and technical matters related togeology and the mineral industry; 8) execution of federal and state government policies relating to geological activities and the mineral industry 9) maintenance of a national data bank for information relating to the geological and mineral resources of Malaysia 10)systermatic marire geological mapping.	
Publications	· Annual Report (in English); · Economic Bulletin (irregularly, in English); · Quaternary Geology Bulletin. · Technical Report Proceedings	
Additional information		


DIRECTOR-GENERAL
ASSISTANT DIRECTOR-GENERAL
DIRECTOR DEVELOPMENT PROJECTS
DIRECTOR ANALYTICAL GEOCHEMICAL SERVICES
DIRECTOR MINERAL RESOURCES & GEOTECHNICAL SERVICES
DIRECTOR GEOLOGICAL MAPPING
DIRECTOR TECHNICAL SUPPORT SERVICES
DIRECTOR EDITORIAL & PUBLICATION SERVICES
DIRECTOR
DIRECTOR
ECONOMIC GEOLOGY
REGIONAL MAPPING
MINERALOGY CRYSTALLOGRAPHY
LIBRARY
ADMINISTRATION
ADMINISTRATION
GEOPHYSICS
CARTOGRAPHY
REGIONAL MAPPING
REGIONAL MAPPING
COMPUTER SERVICES
ECONOMIC GEOLOGY
MINERAL EXPLORATION
ENGINEERING GEOLOGY
QUATERNARY GEOLOGY
HYDROGEOLOGY ENGINEERING GEOLOGY
GEOCHEMISTRY
GEOCHEMISTRY
PHOTOGEOLOGY
DEVELOPMENT PROJECTS
DEVELOPMENT PROJECTS
URBAN GEOLOGY

Organizatin name	Institute name : Malaysian Agricultural Research and Development Institute	Section name :
	Parent organization name :	Director or Office name : Dr. Mohd. Yusof bin Hashim, Director-General
Address information	Country name : Malaysia	Telephone : 9486601 Facsimile : 9483664 Telex : 37115
	Mailing address : 50774 Kuala Lumpur, Malaysia	
Organizatin description	Number of people research professionals :475 supportion professionals : 33 Technicians : 1184 Others : 1889 Total : 1581	Founding year : 1969.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) Commodity research, including fruits, rice, cocoa, coconut, tobacco, horticultural crops, and livestock; 2) Supportive research, including agricultural engineering, water management, food technology, techno-economic and social studies, 3) biotechnology, 4) technology promotion and management of information systems	
Research activities	Holds an annual staff conference.	
Publications	· MARDI Research Bulletin; · Commodity Report; · Annual Report; · Teknologi Pertanian; · Teknologi Makanan; · Berita Penyelidikan; · Komunikasi MARDI.	
Additional information	MARDI maintains 30 research stations on the Malaysian Peninsula.	

Category : Agricalture

Organizatin name	Institute name : Standards and Industrial Research Institute of Malaysia	Section name :
	Parent organization name :	Director or Office name : Dr. Ahmad Tajuddin Ali, Controller
Address information	Country name : Malaysia Mailing address : 40700 Shah Alam, Selangor, Malaysia	Telephone : (3) 5591630 Facsimile : (3) 5508095 Telex : 38672
Organizatin description	Number of people research professionals: 309 supportion professionals : 83 Technicians : 52 Others : 467 Total : 911	Founding year : 1975. Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) Advance manufacturing technology, 2) materials (metals, plastics, ceramics), 3) apropriate technology (chemical processes, pilot plant study, waste utilization, waste treatment, environment monitoring,technological innovation), 4) product design, 5) instrumentation, 6) chemical technology, 7) industrial biotechnology, 8) electrotechnical interests.	
Research activities	Holds regular seminars in standards, quality assurance, and industrial technology. Library: 200,000 national and foreign standards, and 11,000 technical books on quality assurance, industrial technology, and management;	
Publications		
Additional information	SIRIM maintains branch umits in Sabah, Sarawak, Johor, Minden, and Trengganu.	

Category : Material

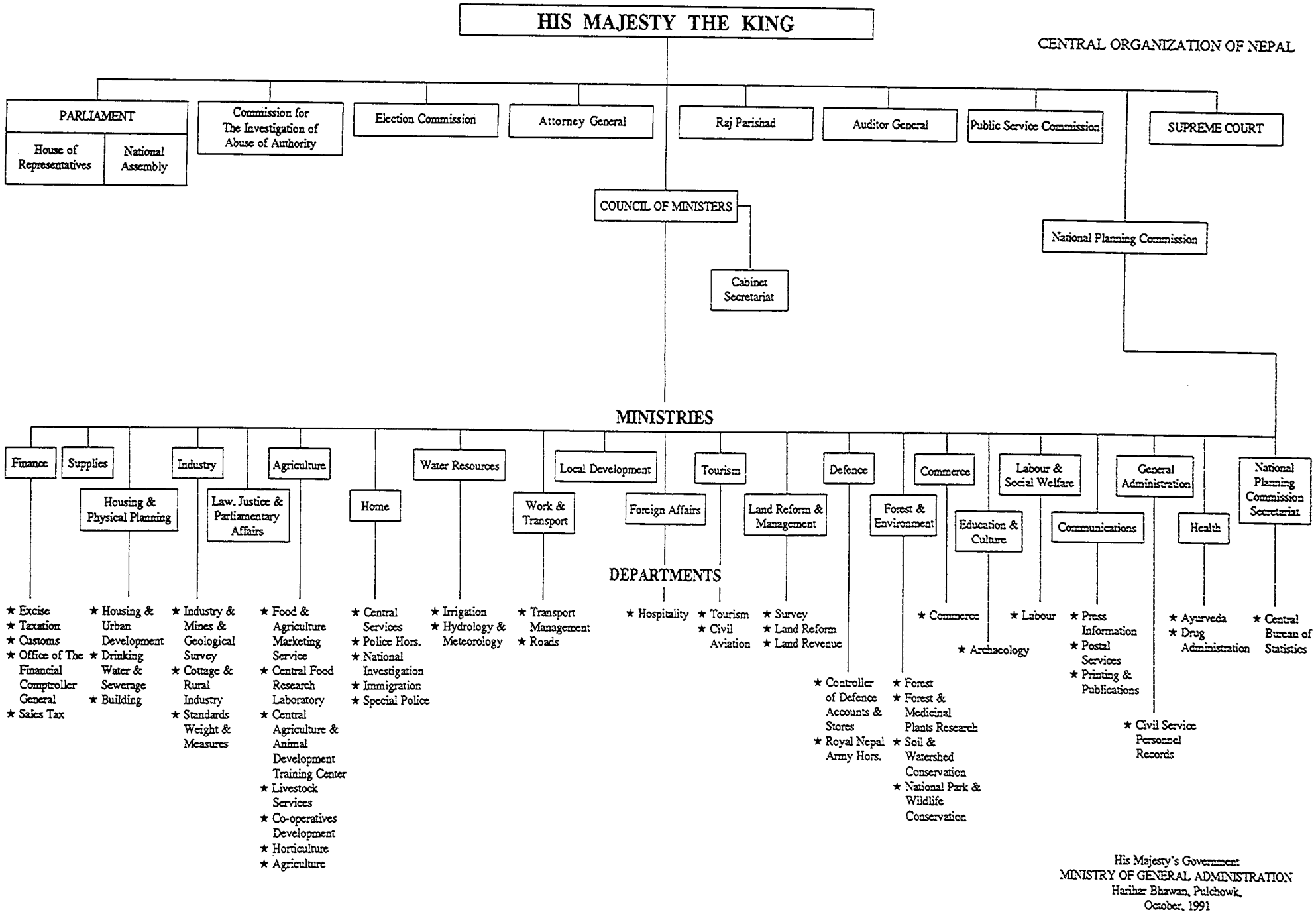
ABSTRACT

OF

INSTITUTE

Nepal

CENTRAL ORGANIZATION OF NEPAL



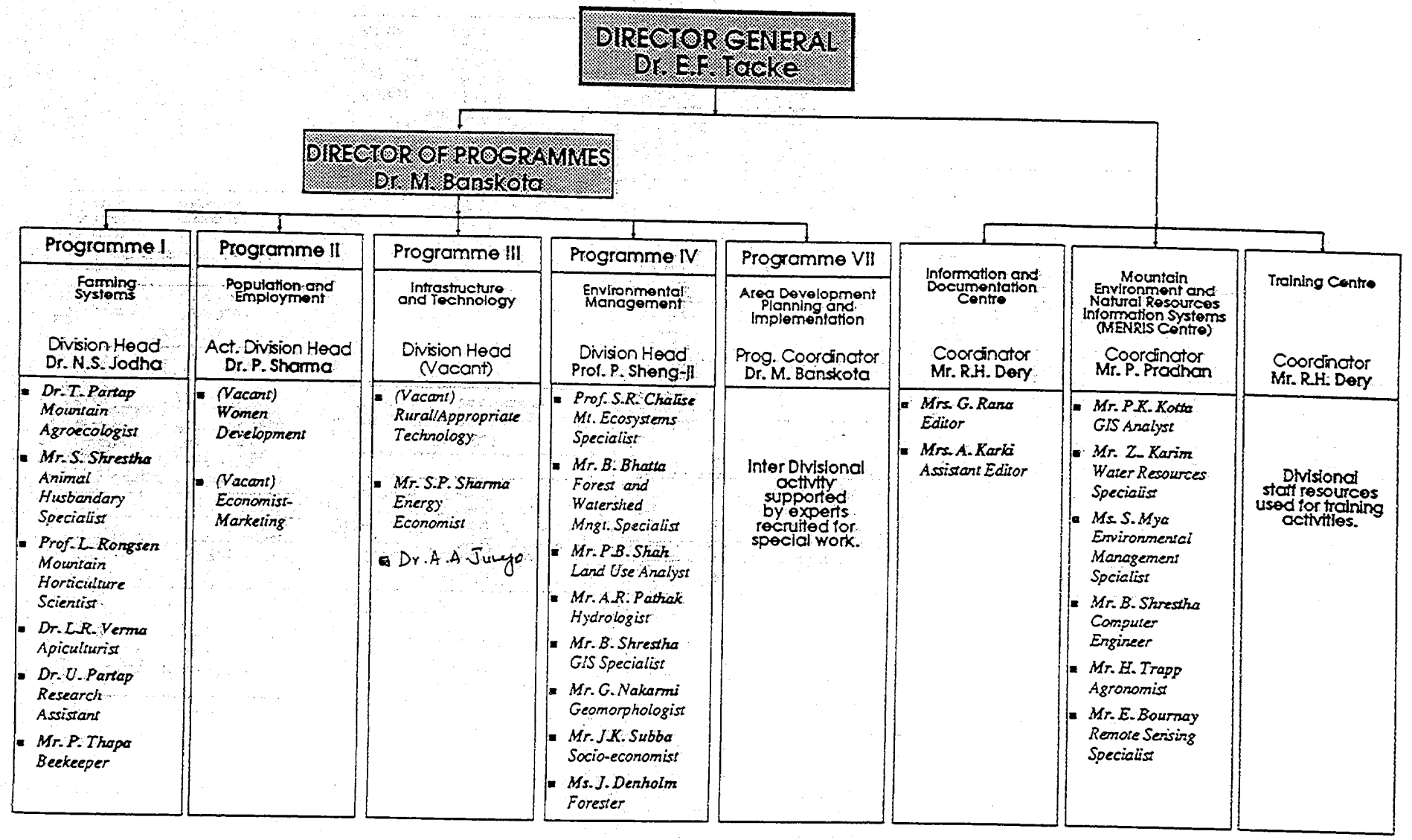
His Majesty's Government
MINISTRY OF GENERAL ADMINISTRATION
Harihar Bhawan, Pulchowk,
October, 1991

Nepal - 1

Organization name	Institute name : International Centre for Integrated Mountain Development (ICIMOD)	Section name :
	Parent organisation name : Center is an autonomous, international organisation.	Director or Office name : Dr. E.F. Tacke, Director General
Address information	Country name : Nepal	Telephone : (977-1-525313) Facsimile : (977-1-524509) Telex : 2439 ICIMOD NP
	Mailing address : P.O. Box 3226 Kathmandu, Nepal	
Organization description	Number of people Research professionals : 31 Supporting professionals : 5 Technicians : Others : 82 Total : 118	Founding year : 1983
		Other Organization Information (Budget etc) : US$ 3 million
	Organization Chart :	
Research area	Center conducts research, development, and training programs in forestry, mountain resource systems (including hill farming), watershed management, rural energy planning, urbanisation, information systems, livestock development, land use patterns, geographical infomation systems, agriculture, population and area development planning.	
Research activities	Findings are published as research papers and conference proceedings. Meetings/Educational Activities: Workshops and seminars on watershed management, off-farm employment, engineering, and rural energy are held on an irregular basis. Library: 13000 volumes in mountain agriculture, forestry, livestock, and socioeconomics; geography, environment rural development: Pradeep Lohani, Information Officer.	
Publications	· Newsletter Twice per year. See publication catalogue	
Additional information		

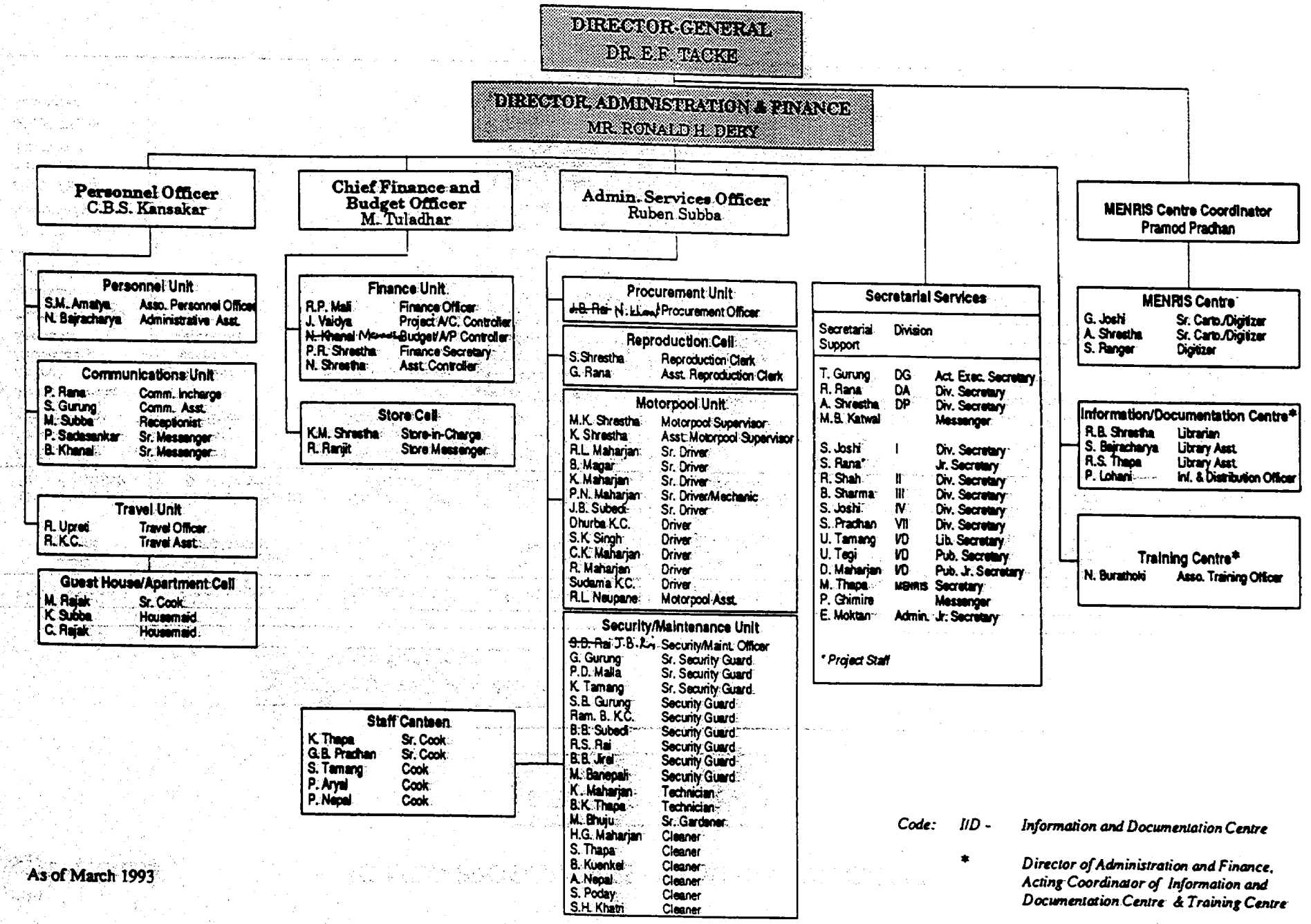
Category : Planning

ICIMOD PROGRAMMES ORGANISATION CHART



As of March 1993

NATIONAL OFFICER (NO) AND GENERAL SERVICES (GS) STAFF POSITIONS



Code: IID - *Information and Documentation Centre*

* *Director of Administration and Finance, Acting Coordinator of Information and Documentation Centre & Training Centre*

As of March 1993

Nepal - 2

Organization name	Institute name : National Council for Science and Technology (NCST)	Section name :
	Parent organization name : Integral unit of National Planning Commission	Director or Office name : Prof. Dr. Bhaarat P. Dhital, Chairman
Address information	Country name : Nepal	Telephone : 216348 Facsimile : Telex :
	Mailing address : Kirtipur Kathmandu, Nepal	
Organization description	Number of people Research professionals : 4 Supporting professionals : 3 Technicians : Others : 6 Total : 13	Founding year : 1976
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Science and technology policy and research and development planning. Promotes research activities in various national ministries and departments.	
Research activities	Research results published in research reports and proceedings. Meetings/Educational Activities: Sponsors National Science and Technology Congress.	
Publications	· Research Paper Series (in English); · Occasional Paper Series (in English).	
Additional information		

Category : Others

Nepal - 3

Organization name	Institute name : Research Centre for Applied Science and Technology (RECAST)	Section name :
	Parent organization name : Integral unit of Tribhuvan University.	Director or Office name : Prof. Dr. Madhab Prasad Sharma, Executive Director
Address information	Country name : Nepal	Telephone : 214303 Facsimile : Telex :
	Mailing address : Kirtipur Kathmandu, Nepal	
Organization description	Number of people Research professionals : 21 Supporting professionals : 20 Technicians : 3 Others : 39 Total : 83	Founding year : 1977
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Develops natural products, alternative and renewable energy sources, food and allied products, natural fibers, construction and building materials, and post-harvest technology. Also studies technology utilization and chemical and mechanical engineering.	
Research activities	Research results published in journals, research reports, and proceedings. Meetings/Educational Activities: Holds occasional workshops on improved cookstoves and on natural fibers and dyeing.	
Publications	· RECAST Newsletter (bimonthly; in English and Nepali); · Technology Leaflet Series (bimonthly, in English and Nepali).	
Additional information		

Category :General

ABSTRACT

OF

INSTITUTE

Pakistan

Pakistan - 1

Organization name	Institute name : Building Research Station Lahore	Section name :
	Parent organization name : Integral unit of C & W Department	Director or Office name : Mr. S.M. Yunas Shami, Director
Address information	Country name : Pakistan	Telephone : 86040 Facsimile : Telex :
	Mailing address : New Campus Lahore, Pakistan	
Organization description	Number of people Research professionals : 22 Supporting professionals : 52 Technicians : 36 Others : 32 Total : 142	Founding year : 1961
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Building construction and materials, low cost housing, development and evaluation of building materials from indigenous sources, and soil mechanics.	
Research activities	Research results published in primary journals, research reports, and proceedings.	
Publications		
Additional information		

Category : Structure

Pakistan - 2

Organization name	Institute name : Cholistan Institute of Desert Studies (CHIDS)	Section name :
	Parent organization name : Islamia University	Director or Office name : Prof. Dr. Misbahul Ain Khan, Director
Address information	Country name : Pakistan	Telephone : (621)4273 Facsimile : Telex :
	Mailing address : Islamia University Bahawalpur P.O. Box 146 Bahawalpur, Pakistan	
Organization description	Number of people Research professionals : 13 Supporting professionals : Technicians : 4 Others : 14 Total : 31	Founding year : 1984
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's research program on deserts includes studies in: water conservation; saline water agriculture; range management; plant breeding; soil-plant relationships; dunes stabilization; solar, wind, and biogas energies; and transfer of technology to desert dwellers.	
Research activities	Findings are published in books and research reports..	
Publications		
Additional information		

Category : Disaster

Organization name	Institute name : National Building Research Institute	Section name :
	Parent organization name : Coordinated and sponsored by the Council for Works and Housing	Director or Office name : Dr. Ataullah Maher, Director General
Address information	Country name : Pakistan	Telephone : 294319 Facsimile : Telex :
	Mailing address : F-40 S.I.T.E. Hub River Rd. Karachi 28, Pakistan	
Organization description	Number of people Research professionals : 25 Supporting professionals : 30 Technicians : 9 Others : 36 Total : 100	Founding year : 1985
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Structural engineering, building materials, soil engineering, building services, building physics, fire research, and technology transfer.	
Research activities	Research results published in research reports and proceedings. Meetings/Educational Activities: Holds occassional seminars, workshops, and exhibitions, open to all.	
Publications	· NBRI Newsletter (quarterly, in English).	
Additional information		

Category : Structure

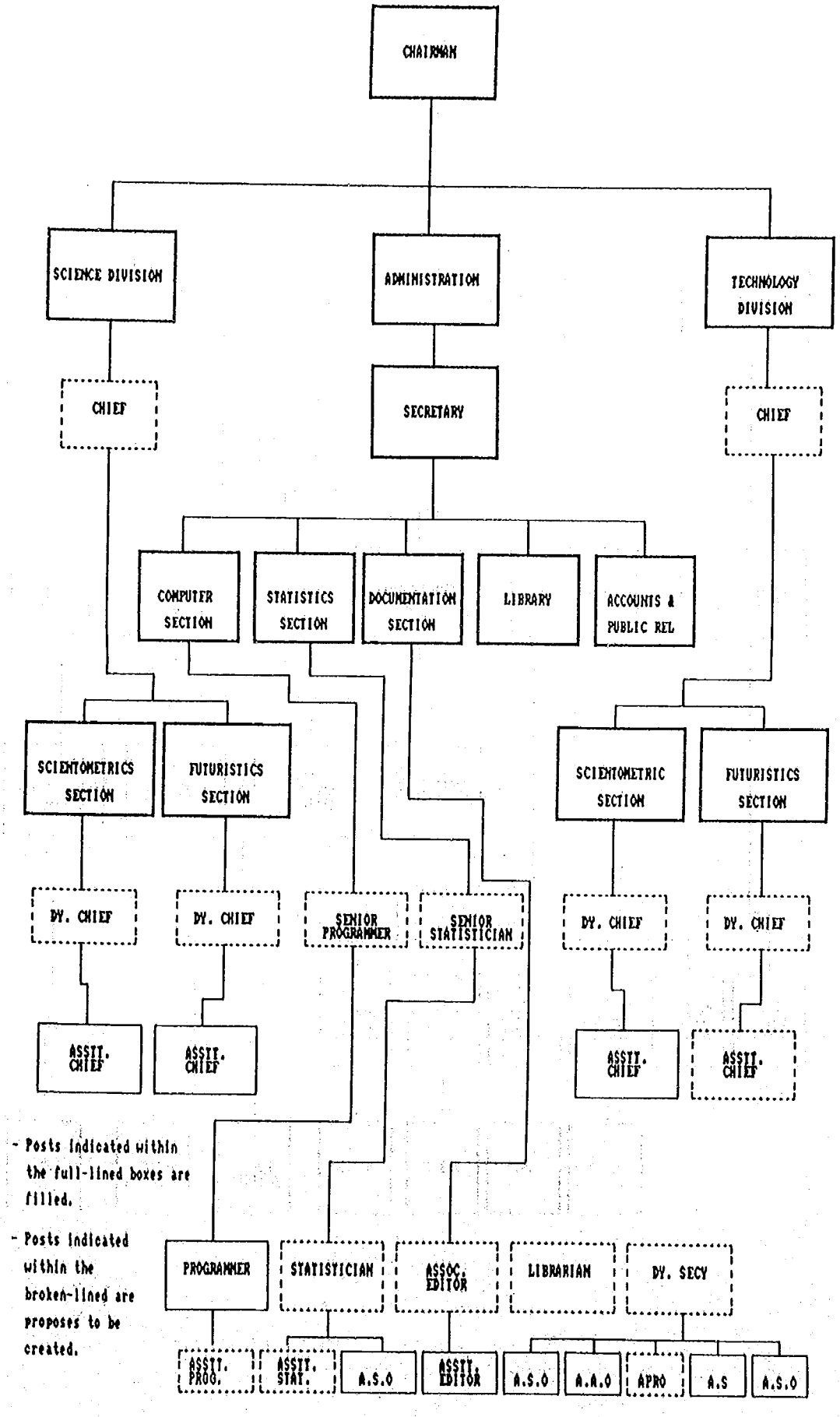
Pakistan - 4

Organization name	Institute name : Pakistan Council for Science and Technology (PCST)	Section name :
	Parent organization name : the Ministry of Science and Technology	Director or Office name : Dr. Shafiq A. Khan, Chairman Pakistan Council for Science and Technology, Islamabad.
Address information	Country name : Pakistan	Telephone : 825171 Facsimile : 825171 Telex :
	Mailing address : Shahrah-i-Jumhurate, Opp. PBC House, G- 5/2, Islamabad, Pakistan	
Organization description	Number of people Research professionals : 12 Supporting professionals : 3 Technicians : 4 Others : 14 Total : 33	Founding year : 1961
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Council conducts research on issues relating to the management, policy making, planning, promotion, and application of science and technology in Pakistan and functions as an advisory body to the government. Council also: identifies priority areas of reseach and development; collects science and technology statistics and maintains a data bank of research institutions; provides a forum for the coordination of science and technology activities with national and international agencies; and organizes study groups and task forces. Council undertakes a number of studies in scientometrics, futuristics, and other aspects of planning and management concerning major areas such as energy, environment, agriculture, medicine, industry, higher education, and university research.	
Research activities	Findings are published in primary journals, as research reports and conference proceedings,	
Publications	· Science Technology and Development (bimonthly) · Science and Technology in the Islamic World (quarterly)	
Additional information		

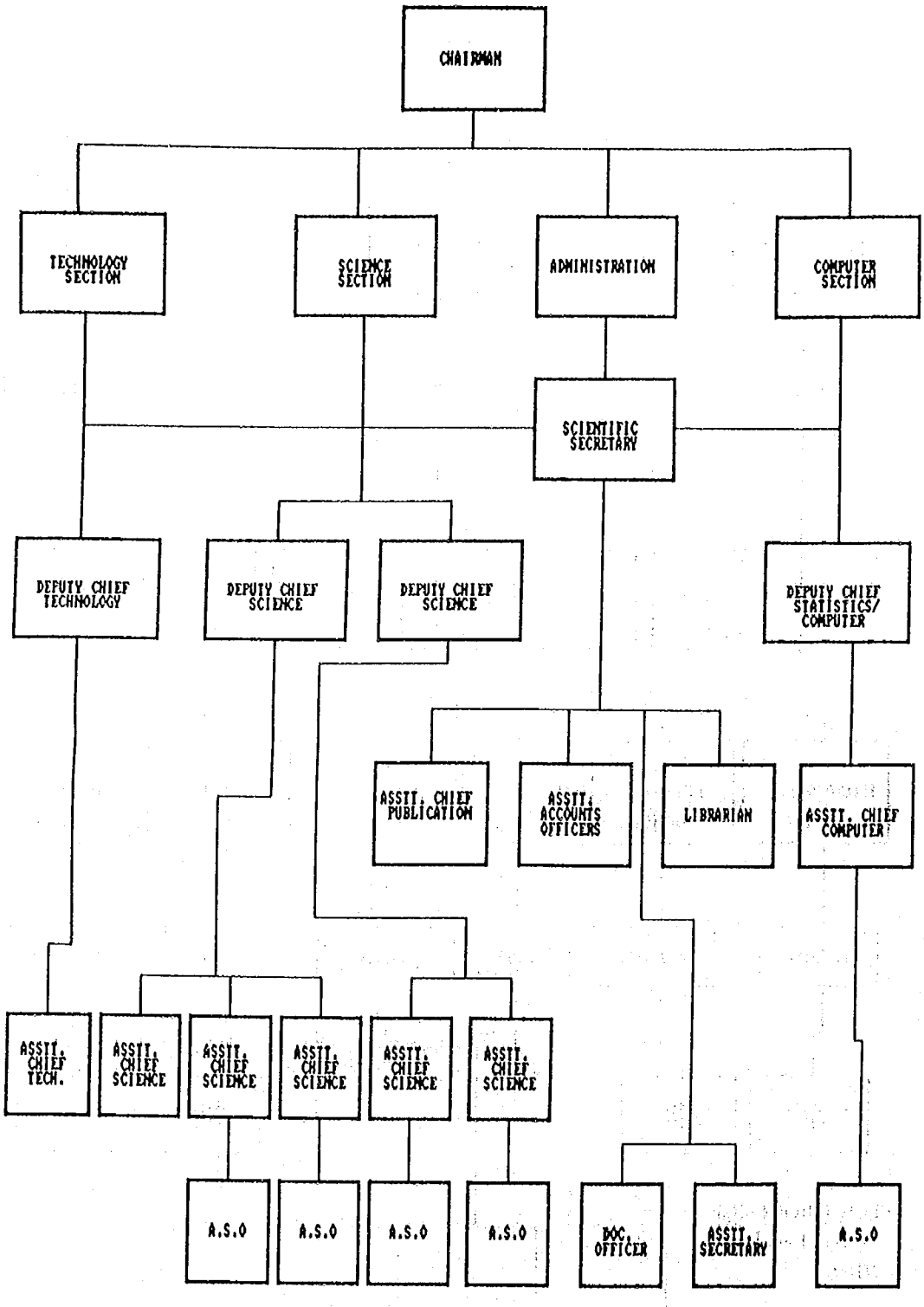
Category : Others

ORGANISATIONAL CHART

PAKISTAN COUNCIL FOR SCIENCE & TECHNOLOGY



PAKISTAN COUNCIL FOR SCIENCE & TECHNOLOGY
ORGANOGRAM



Organization name	Institute name : Pakistan Council of Scientific and Industrial Research (PCSIR)	Section name :
	Parent organization name : Integral unit of Ministry of Science and Technology	Director or Office name : Prof. Dr. Qamar Iqbal, Chairman
Address information	Country name : Pakistan	Telephone : 811941 Facsimile : Telex : 54251 PCSIR PK
	Mailing address : Press Center, 2nd Fl. Shahrah-e-Kamal Ataturk Karachi, Pakistan	
Organization description	Number of people research professionals : 500 supporting professionals : 500 technicians : 250 others : 750 Total : 2000(includes staff of Council and three laboratories)	Founding year : 1953
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Council maintains research and development laboratories at Karachi, Lahore, and Peshawar. Principal areas of interest include: food technology, metallurgy, oils and fats, fermentation, drugs and pharmaceuticals, glass and ceramics, agro-industrial chemicals, leather, and fuel, as well as rural technology and training in instrumentation mechanics.	
Research activities	Findings are published in primary journals. Meetings/Educational Activities: Sponsors seminars on energy, environment, and other research-related topics.	
Publications	· Council's Pakistan Journal of Scientific · Industrial Research (bimonthly, in English).	
Additional information		

Category :General

Pakistan - 6

Organization name	Institute name : Pakistan Forest Institute (PFI)	Section name :
	Parent organization name : Integral unit of the Ministry of Food Agriculture.	Director or Office name : Dr. Khalid Mahood Siddiqui, Director-General
Address information	Country name : Pakistan	Telephone : 216348 Facsimile : Telex :
	Mailing address : N.W.F.P. Peshawar, Pakistan	
Organization description	Number of people Research professionals : 55 Supporting professionals : 6 Technicians : 10 Others : 56 Total : 127	Founding year : 1948
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Forestry, watershed and range management, forest products, and forest engineering, sericulture, forest education, biological sciences, and wildlife management.	
Research activities	Conducts an annual research review committee each October attended by PFI scientists.	
Publications	· Pakistan Journal of Forestry (quarterly, in English); · Annual Research Report..	
Additional information		

Category : Others

ORGANIZATIONAL CHART
PAKISTAN FOREST INSTITUTE, PESHAWAR

DIRECTOR GENERAL
(BPS-20)

FOREST ECONOMICS
Forest Economist (BPS-18) - 1
Asstt. Forest Economist (BPS-17) - 1
Research Asstt. (BPS-16) - 1
Computers (BPS-16) - 3 (Vacant-1)

DEPUTY DIRECTOR (TECHNICAL)
(BPS-18)

MEDICAL OFFICER
(BPS-18) - 1
LADY MEDICAL OFFICER
(BPS-17) - 1

ADMN. OFFICER (GENERAL)
(BPS-17)
SUPERINTENDENTS
(BPS-16) - 2

ADMN. OFFICER (B & A)
(BPS-17)
SUPERINTENDENTS
(BPS-16) - 2

EXECUTIVE OFFICER
(BPS-17)

EXTENSION AND PUBLICITY
Ext. Specialist (BPS-18) - 1
Librarian (BPS-17)
Asstt. Librarian (BPS-16)
(Vacant-1)
Tech. Asstt. (BPS-16) - 1

FORESTRY RESEARCH

Director (BPS-19) - 1

SILVICULTURE

Central Silviculturist (BPS-18) - 1
Assistant Silviculturists (BPS-17) - 3
(Vacant - 1)
Forest Rangers (BPS-16) - 5
(Vacant - 3)

FARM FORESTRY

Senior Research Officer (BPS-18) - 2

RANGE MANAGEMENT

Range Management Officer (BPS-18) - 1
Assistant Silviculturist (BPS-17) - 1
Format Rangers (BPS-18)
(Vacant - 2)

WATERSHED MANAGEMENT

Watershed Management Specialist (BPS-18) - 1
Research Officer (BPS-17) - 1
Assistant Silviculturists (BPS-17) - 2

FOREST MENSURATION

Forest Mensuration Officer (BPS-18) - 1
Forest Rangers (BPS-18) - 3

FOREST GENETICS

Forest Geneticist (BPS-18) - 1
Asstt. Forest Geneticist (BPS-17) - 1
Assistant Silviculturist (BPS-17) - 1
Technical Assistant (BPS-16)
(Vacant - 1)

BIOLOGICAL SCIENCES

Director (BPS-19) - 1

FOREST CHEMISTRY

Forest Chemist (BPS-18) - 1
Soil Chemist (BPS-18) - 1
Assistant Forest Chemist (BPS-17) - 1
Bio-Chemist (BPS-17) - 1

FOREST BOTANY

Forest Botanist (BPS-18)
(Vacant - 1)
Plant Physiologist (BPS-17) - 1
Assistant Forest Ecologiest (BPS-17) - 1

FOREST PATHOLOGY

Forest Pathologist (BPS-18) - 1

Technical Assistant (BPS-15) - 1

MEDICINAL PLANTS

Medicinal Plant Botanist (BPS-18) - 1
Assistant Economic Botanist (BPS-17) - 1
Research Assistant (BPS-18) - 2

FOREST ENTOMOLOGY

Director (BPS-19)- 1

FOREST ENTOMOLOGY

Asstt. Forest Entomologist (Bionomical) (BPS-17) - 1
Asstt. Forest Entomologist (Biological Control) (BPS-17) - 1
Asstt. Forest Entomologist (Pest Control) (BPS-17) - 1
Symptomatic Entomologist (BPS-17) - 1
Technical Assistant (BPS-18)
(Vacant - 1)

WILDLIFE MANAGEMENT

Wildlife Management Specialist (BPS-18) - 1

SERICULTURE

Director (BPS-19) - 1
(Vacant)

SILKWORM BREEDING

Senior Research Officer (BPS-18) - 1

PATHOLOGY

Senior Research Officer (BPS-18) - 1

FOREST PRODUCTS

Director (BPS-19) - 1

WOOD SEASONING & PRESERVATION

Wood Seasoning & Preservation Officer (BPS-18) - 1
Assistant Wood Seasoning Officer (BPS-17) - 1
Technical Assistant (BPS-16) - 1
Research Assistant (BPS-16) - 1

COMPOSITE WOOD

Assistant Composite Wood Officer (BPS-17) - 1
Assistant Wood Technology Officer (BPS-17) - 10

FOREST ENGINEERING & LOGGING

Logging Officer (BPS-18) - 1
Assistant Forest Engineers (BPS-17) - 2
Forest Manager (BPS-17) - 1

PULP AND PAPER

Senior Pulp & Paper Officer (BPS-18) - 1
Pulp and Paper Officer Technology (BPS-17) - 2

MATERIAL TESTING UNIT

Assistant Wood Technologist (BPS-17) - 1

MAINTENANCE WORKSHOP

Assistant Wood Working Officer (BPS-17) (Vacant - 1)

FOREST EDUCATION

Director (BPS-19) - 1

FOREST EDUCATION

Assistant Professor of Forestry (BPS-18) - 4
Lecturer-in-Forestry (BPS-17) - 3

(The Research staff of the other divisions teach their respective subjects to M. Sc. and B. Sc. students)

ABSTRACT

OF

INSTITUTE

Philippines

Organization name	Institute name : Building Research Service	Section name :
	Parent organization name : the National Engineering Center of the University of the Philippines.	Director or Office name : Dr. Geronimo V. Manahan, Director
Address information	Country name : Philippines	Telephone : 97-60-61 Facsimile : Telex :
	Mailing address : Quezon City, Philippines	
Organization description	Number of people research professionals : 2 supportion professionals : 20 Technicians:4 Others:1 Total : 27	Founding year :
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Unit undertakes contract research and development in the fields of building science and materials, construction methods, and the management aspects of buildings. Unit provides advisory services and technical assistance in housing, building and testing of materials	
Research activities		
Publications		
Additional information		

Category : Planning

Organization name	Institute name : National Engineering Center	Section name :
	Parent organization name : the University of the Philippines	Director or Office name : Dr. Francisco L. Viray, Executive Director
Address information	Country name : Philippines	
	Mailing address : NEC Bldg. University of the Philippines Diliman Quezon City, Philippines	Telephone : (2) 922-47-14 Facsimile : Telex :
Organization description	Number of people research professionals : supportion professionals : Technicians: Others: Total : 9	Founding year : 1978
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) building research, including housing technology, indigenous building materials, and geotechnic and environmental influences; 2) computers and communication, including digital systems design, software development, and power systems design; 3) energy, including indigenous energy sources, energy conversion, and energy management; 4) geodesy and photogrammetry, including soil erosion and vegetation succession; 5) hydraulics; 6) metallurgy, including metals and materials testing, chemical metallurgical analysis, and materials research and development; 7)production, including productivity studies, work methods design, and facilities planning and design; 8) transportation, including transport planning, traffic engineering and management, and computerized transport programming and operations; and 9) systems research, including systems analysis and design, systems evaluation, and decision support systems and operations research. NEC also offers continuing education programs in chemical, civil, electrical, geodetic, industrial, mechanical, and metallurgical and mining engineering	
Research activities		
Publications	· Philippine Engineering Journal (semiannually); · Safety and Maintenance Digest (quarterly); · Regional Network for the Exchange of Information and Experience in Science and Technology in Asia and the Pacific (ASTINFO) Newsletter (quarterly)	
Additional information		

Organization name	Institute name : National Hydraulic Research Center	Section name :
	Parent organization name :	Director or Office name : Prof. Angel A. Alejandrino, Director
Address information	Country name : Philippines	Telephone : 987149 / 987176 976061 Ext.811 Facsimile : (632) 987190 Telex : 2231 UPDIL PU
	Mailing address : U.P.P.O. Box 37 Diliman, Quezon City Philippines 1101	
Organization description	Number of people research professionals : 8 supportion professionals : 2 Technicians:11 Others: Total : 21	Founding year : 1973
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) spillway studies; 2) sediment transport studies;3) river studies;4) research in control structures;5) design and fabrication of specialized fluid flow devices and supportive apparatus for hydraulic investigations; 6) industrial product testing; 7)studies on policy for use and allocation of water resources; 8) simulation by mathematical models; and coastal engineering studies	
Research activities		
Publications		
Additional information		

Category : Hydraulics

Organization name	Institute name : Natural Sciences Research Institute	Section name :
	Parent organization name :	Director or Office name : Dr. Elma C. Llaguno, Director
Address information	Country name : Philippines	Telephone : 996868 Facsimile : Telex : 975736
	Mailing address : Quezon City, Philippines	
Organization description	Number of people research professionals : 55 supportion professionals : 40 Technicians:2 Others:16 Total : 113	Founding year : 1964
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) Biology, 2) chemistry, 3) mathematics, 4) meteorology, 5) molecular biology	
Research activities	Sponsors annual research symposium and conducts regular training courses in microbiology, analytical chemistry, and genetic engineering	
Publications	· NSRI Research Report (annually, in English); · NSRI Catalogue of Cultures (every three to five years).	
Additional information		

Category : Others

Organization name	Institute name : Philippine National Science Society	Section name :
	Parent organization name : the Department of Science and Technology	Director or Office name : Dr. Melecio S. Magno, President
Address information	Country name : Philippines	Telephone : (2) 822-04-09 Facsimile : Telex :
	Mailing address : Metro Manila, Philippines	
Organization description	Number of people research professionals : 700 supportion professionals : 63 Technicians: Others: Total : 763	Founding year : 1933
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) governmental, educational, and international policies; 2) mathematics; 3) medicine; 4) pharmaceutical science; 5) biology; 6)agriculture and forestry; 7) engineering and industry; 8) social sciences; 9)physics; 10) chemistry; 11) humanities; 12) earth sciences	
Research activities		
Publications	· books and monographs (in English and Filipino); · NRCP Research Bulletins (quarterly), · Technical Bulletins, · Newsletter (quarterly).	
Additional information		

Category : Others

Organization name	Institute name : Technology Application and Promotion Institute	Section name :
	Parent organization name :	Director or Office name : Prof. Fortunato T. De La Pen, Director
Address information	Country name : Philippines	Telephone : 8220609 Facsimile : 23312 Telex : (632) 822-0564
	Mailing address : General Santos Ave. Bicutan, Taguig Metro Manila, Philippines	
Organization description	Number of people research professionals : 39 supportion professionals : 12 Technicians:2 Others:9 Total : 62	Founding year : 1965
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Technology promotion, transfer and commercialization of DOST-developed technologies	
Research activities	Sponsors an annual Inventors' Week (last week of February) that includes an inventions contest and exposition; for inventors, industrialists, and all interested persons. Also holds workshops and seminars every three to six months for inventors and students.	
Publications	· Inventnews (monthly, in English); · Annual Report (in English).	
Additional information		

Category : Others

ABSTRACT

OF

INSTITUTE

Saudi Arabia

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Division of Energy Resources</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Integral unit of the Energy Resources Division, Research Institute, King Fahd University of Petroleum and Minerals.</td><td>Director or Office name :
Dr. Hashim A. Yamani, Manager</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Saudi Arabia</td><td rowspan="2">Telephone : (03) 860-3560 or 860-3555
Facsimile : (03) 860-4281
Telex : 801913 KFUPMI SJ</td></tr>
<tr><td>Mailing address :
Research Institute King Fahd University of Petroleum and Minerals
Dhahran 31261, Saudi Arabia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals :
Supporting professionals :
Technicians :
Others :
Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Activities of the Energy Systems Group cover a wide range of energy systems in buildings and industry, surface meteorlogy and renewable energy applications. Topics of investigation include: ventilation and indoor air quality, lighting, numerical modeling of energy requirements of buildings, testing of building materials, design and maintenance procedure of air-conditioning systems, monitoring and analysis of meteorlogical and solar radiation parameters, low temperature solar energy applications, and photovoltaic. The Laser Research Program covers atomic spectroscopy, supersonic jet spectroscopy, molecular dynamics, fluid flow, and laser evaporated thin films. The research of the Basic and Applied Physics Program includes the measurement of analyzing power, neutron scattering cross sections, the study of ion dynamics using polarized and unpolarized neutrons, the investigation of the proton induced reactions pertinent to astrophysics, the analysis of geological and oil samples in the microgram region, the characterization and modification of materials, corrosion and metal diffusion studies, depth profile of light elements in solid surfaces, elemental analyses of geological and biomedical samples, environmental studies of air and water pollution, materials modification by ion implantation and ion beam mixing, quality control of industrial products, and radiation protection and monitoring such as: supervising safe operation of the accelerators, personnel dosimetry, environmental surveys, instrument calibration, food monitoring as well as educational and training services.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Organization name	Institute name : Division of Geology and Minerals	Section name :
	Parent organization name : Integral unit of the Research Institute, King Fahd University of Petroleum and Minerals	Director or Office name : Dr. Talat A. Bader, Manager
Address information	Country name : Saudi Arabia	Telephone : (03) 860-3111 or 860-3114 Facsimile : (03) 860-3984 Telex : 801913 KFUPMI SJ
	Mailing address : Research Institute King Fahd University of Petroleum and Minerals Dhahran 31261, Saudi Arabia	
Organization description	Number of people Research professionals : 12 Supporting professionals : 4 Technicians : 5 Others : 1 Total : 22	Founding year : Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division's research program in geology and minerals involves studies in sand control, desertification, vegetation, sand stabilization, and engineering geology.	
Research activities	Findings are published as research reports.	
Publications		
Additional information		

Category : Geology

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Division of Metrology, Standards and Materials</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Integral unit of the Research Institute, King Fahd University of Petroleum and Minerals</td><td>Director or Office name :
Dr. Abdulaziz I. Al-Mana, Manager</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Saudi Arabia</td><td rowspan="2">Telephone : (03) 860-2888 or 860-2877
Facsimile : (03) 860-3996
Telex : 801913 KFUPMI SJ</td></tr>
<tr><td>Mailing address :
Research Institute King Fahd University of Petroleum and Minerals
Dhahran 31261, Saudi Arabia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals :
Supporting professionals :
Technicians :
Others :
Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division's objectives are: to carry out studies on the utilization and optimization of construction materials in the local environment; to undertake corrosion research; and to establish sophisticated general purpose laboratories for metrology and standards, calibration, instrumentation, materials characterization, and analysis for use by the Research Institute, the University, and outside agencies. Activities are divided into three program areas: Laboratories Program, Materials Research Program, and Corrosion Research Program.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Division of Petroleum and Gas Technology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Integral unit of the Research Institute, King Fahd University of Petroleum and Minerals</td><td>Director or Office name :
Dr. Ali G. Maadhah, Manager</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Saudi Arabia</td><td rowspan="2">Telephone : (03) 860-3888 or 860-3883
Facsimile : (03) 860-3989
Telex : 801913 KFUPMI SJ</td></tr>
<tr><td>Mailing address :
Research Institute King Fahd University of Petroleum and Minerals
Dhahran 31261, Saudi Arabia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
Research professionals :
Supporting professionals :
Technicians :
Others :
Total : 350</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Division's research and development activities are concerned with: methods for petroleum reservoir evaluation and analysis; enhanced oil recovery; petrochemical catalysis; polymers and plastics; and petroleum refining. Division is also responsible for establishing pilot plant facilities for the petrochemical industry and a pilot facility to demonstrate desalination processes using nonpetroleum energy sources. Division consists of a Petroleum Engineering Section, a Petroleum Refining and Petrochemicals Section, and a Desalination and Process Engineering Section. Laboratory facilities are maintained for studies on drilling fluids, core analysis, core preparation, computer applications, polymer technology, organic chemistry, general catalysis, physical properties of fluids, and product verification testing.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published in primary journals and as research reports and proceeedings. Maintains a technical information center.</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Hajj Research Center	Section name :
	Parent organization name : Integral unit of Ummal-Qura University	Director or Office name : Dr. Majdi M. Hariri, Director
Address information	Country name : Saudi Arabia	Telephone : 5572855 Facsimile : 5573282 Telex :
	Mailing address : Ummal-Qura University P.O. Box 6278 Mecca, Saudi Arabia	
Organization description	Number of people Research professionals : 10 Supporting professionals : 29 Technicians : 26 Others : Total : 65	Founding year : 1975
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Pilgrimage studies, including use of animals for sacrifice; movement of pilgrims and vehicles through various Hajj areas; pilgrim accommodations, including testing of new tent designs, light weight structures, and multistorey foldable structures; environmental concerns, including climatic, air and water pollution, noise levels, and liquid and solid wastes; hydrology and underground water at and around the Holy Mosque in Mecca; cultural and historical studies, including oral histories; and socioeconomic, demographic, cultural, and educational backgrounds of pilgrims.	
Research activities	Branches are located in Jedda and Medina.	
Publications		
Additional information		

Category :General

Organization name	Institute name : Islamic Foundation for Science, Technology and Development (IFSTAD)	Section name :
	Parent organization name : established by the Organization of the Islamic Conference (OIC)	Director or Office name : Dr. Arafat R. Altamemi, Director General
Address information	Country name : Saudi Arabia	Telephone : (2) 6322292 Facsimile : (2) 6322274 Telex : 604081
	Mailing address : Insurance Bldg. Airport St. P.O. Box 9833 Jeddah 21423, Saudi Arabia	
Organization description	Number of people Research professionals : 13 Supporting professonals : Technicians : 4 Others : 14 Total : 31	Founding year : 1981
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Foundation's objectives are: to promote and encourage scientific and technological research within an Islamic framework; to promote cooperation and coordination of research activities; to ensure that all member countries integrate science and technology into their socioeconomic plans and objectives; and to provide advisory services and carry out scientific studies for Islamic countries and the OIC. Foundation supports research in the fields of agriculture, energy, computer science, water and soil science, oceanography, genetics, space science, medicine, physical standards, and science and technology policy.	
Research activities		
Publications	· FSTAD Information Bulletin (annually, in English); · Conference Proceedings; FSTAD Studies Series.	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
King Abdulaziz City for Science and Technology
(KACST)</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
an autonomous government agency.
Former Name(s): Saudi Arabian National Center for Science and Technology. (SANCST)</td><td>Director or Office name :
Dr. Saleh Abdulrahman Al-Athel, President</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Saudi Arabia</td><td rowspan="2">Telephone : 4883444, 3883555
Facsimile : 4883756
Telex : 401590 KACST SJ</td></tr>
<tr><td>Mailing address :
P.O. Box 6086 Riyadh 11442, Saudi Arabia</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 103
Supporting professionals : 137
Technicians : 90
Others : 157
Total : 487</td><td>Founding year :
1977</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">KACST's objectives are: 1) to formulate and implement national policy for science and technology development; 2) to conduct and support applied scientific research programs; 3) to assist the private sector in research and development of agricultural and industrial projects; 4) to support joint research programs between international scientific institutions; 5) to award scholarships and grants to individuals and institutions; 6) to coordinate activities of research organizations in Saudi Arabia; 7) to establish research intstitutes in the field of energy, natural resources and environment, nuclear energy, petroleum and petrochemical industries, astronomy, space, electronics, and scientific instrumentation.</td></tr>
<tr><td>Research activities</td><td colspan="2">Findings are published in primary journals, and as research reports and proceedings.
Meetings/Educational Activities: Cosponsors seminars, conferences and special programs.</td></tr>
<tr><td>Publications</td><td colspan="2">· Al Uloom Wa Taghnia (quarterly, in Arabic).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

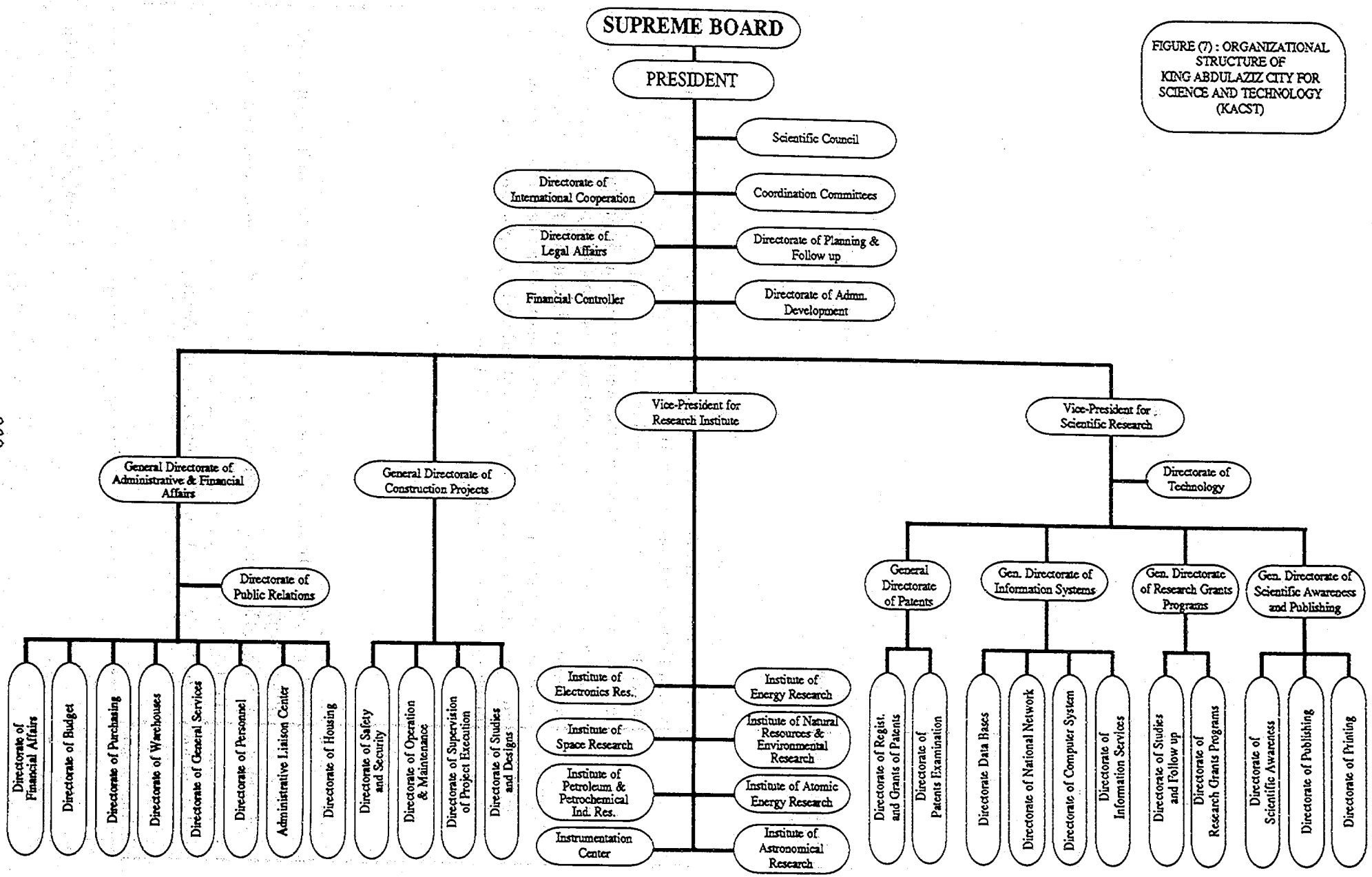


FIGURE (7) : ORGANIZATIONAL STRUCTURE OF KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY (KACST)

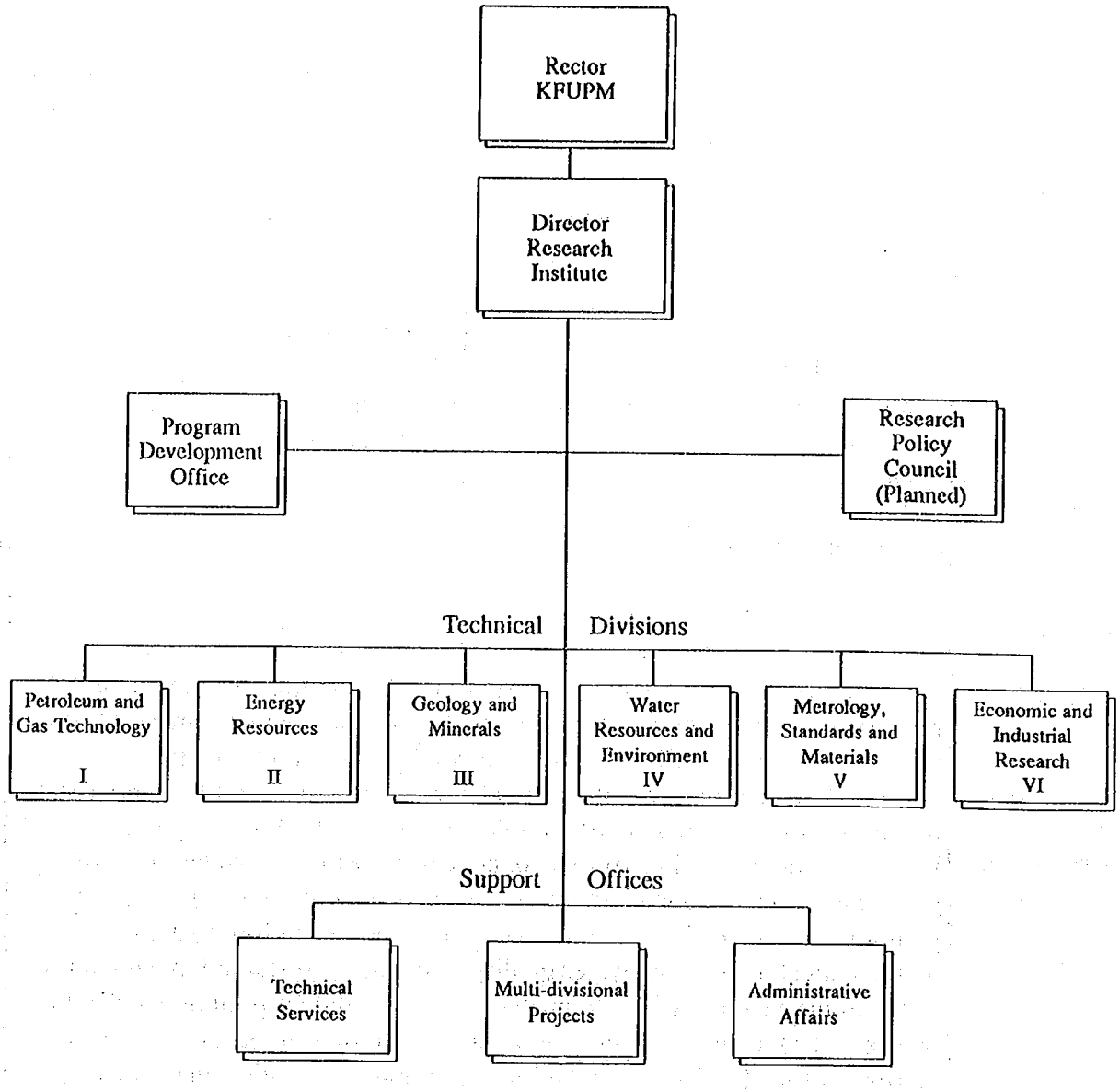
Organization name	Institute name : King Abdulaziz Research Center	Section name :
	Parent organization name : an autonomous unit, administratively attached to the Ministry of Higher Education.	Director or Office name : Abdullah al-Hoqail, Secretary-General
Address information	Country name : Saudi Arabia	Telephone : (1) 4412316 Facsimile : Telex :
	Mailing address : King Faisal Hospital Rd. P.O. Box 2945 Riyadh 11461, Saudi Arabia	
Organization description	Number of people Research professionals : 23 Supporting professionals : 16 Technicians : 14 Others : 39 Total : 92	Founding year : 1972
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Center conducts and promotes research on the history of Saudi Arabia, including its geography, literature, cultural and intellectual heritage; the history of the Arabian peninsula; and the Arab and Islamic countries.	
Research activities	Research findings are published as books.	
Publications	· Addarah (quarterly, in Arabic with English summaries).	
Additional information		

Category : Others

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Research Institute, King Fahd University of Petroleum and Minerals</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Integral unit of the Research Institute, University of Petroleum and Minerals</td><td>Director or Office name :
Dr. Abdallah E. Dabbagh, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Saudi Arabia</td><td rowspan="2">Telephone : (03) 860-3318 or 860-3319
Facsimile : (03) 860-3661
Telex : 801913 KFUPMI SJ</td></tr>
<tr><td>Mailing address :
Dhahran 31261, Saudi Arabia</td></tr>
<tr><td rowspan="2">Organization description</td><td rowspan="2">Number of people
Research professionals : 192
Supporting professionals :
Technicians : 49
Others : 93
Total : 334</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Objectives of the Institute are to conduct research on and develop solutions to problems encountered in the application of modern technology to the needs of Saudi Arabia, particularly in the utilization of its petroleum, mineral, and water resources; and to develop the use of other energy resources applicable in Saudi Arabia The Institute comprises divisions of: 1) Petroleum and Gas Technology; 2) Energy Resources; 3) Geology and Minerals; 4) Water Resources and Environment; 5) Metrology, Standards and Materials; and 6) Economic and Industrial Research (see separate entries). Support functions include a Technical Services Unit, Administrative Affairs Unit, and a Program Development Office.</td></tr>
<tr><td>Research activities</td><td colspan="2">Maintains database of active and completed research projects.</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

Organization Chart



RI Organization Chart

Organization name	Institute name : Water Resources and Environment Division	Section name :
	Parent organization name : the Ministry of Science and Technology	Director or Office name : Dr. Mohamed Bakr Amin, Manager
Address information	Country name : Saudi Arabia	Telephone : (03) 860-3232 or 860-3222 Facsimile : (03) 860-3220 Telex : 801913 KFUPMI SJ
	Mailing address : Research Institute King Fahd University of Petroleum and Minerals Dhahran 31261, Saudi Arabia	
Organization description	Number of people Research professionals : 13 Supporting professionals : 17 Technicians : 23 Others : 2 Total : 55	Founding year : 1976
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Division's objectives are: to promote the discovery, proper utilization, and conservation of Saudi Arabia's water (including oceanographic) resources; and to encourage the protection and enhancement of its air, water, and land environment. Division conducts research on the conservation and renewal of freshwater supplies and monitors and assists in the systems management of the total environment of the region. Division's three working groups are concerned with: 1) water resources, including water resource alternatives (such as importation), strategic planning for water use, automation of water and irrigation systems, mathematical modeling, water quality, and water conservation and reuse; 2) environmental pollution, focusing on water and air pollution and solid waste; and 3) the bioenvironment, including studies in oceanography and marine biology (to determine the impact of man's activities on the marine environment), and oil spills.	
Research activities		
Publications		
Additional information		

Category : Environment

ABSTRACT

OF

INSTITUTE

Singapore

Singapore - 1

Organization name	Institute name : Applied Research Corporation (ARC)	Section name :
	Parent organization name : National University of Singapore and Nanyang Technological University	Director or Office name : Ong Chor Eong, Managing Director
Address information	Country name : Singapore	Telephone : 7755822 Facsimile : 7730924 Telex :
	Mailing address : Engineering Block E4-04-11 National University of Singapore Kent Ridge Crescent Singapore 0511	
Organization description	Number of people Research professionals : 6 Supporting professionals : 2 Technicians : Others : 7 Total : 15	Founding year : 1973
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	ARC carries out research and surveys on a contractual basis. Areas of interest include technology, socioeconomics, economics, business, management, and health.	
Research activities	Research results published. Meetings/Educational Activities: Sponsors conferences on topics of engineering, productivity, and safety and loss prevention.	
Publications		
Additional information		

Category :General

Singapore - 2

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Institute of Physics, Singapore</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Singapore National Academy of Science, Singapore Science Centre</td><td>Director or Office name :
Seung Mun Tang, Associate Professor</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Singapore</td><td rowspan="2">Telephone : 7722604
Facsimile : 7776126
Telex : 33943</td></tr>
<tr><td>Mailing address :
c/o Physics Department National University of Singapore Kent Ridge
Singapore 0511, Singapore</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals :
Supporting professionals :
Technicians :
Others :
Total :</td><td>Founding year :
1972</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute promotes research in high-energy physics, materials science, solid state physics, nuclear physics, atomic physics, and applied physics.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Singapore Journal of Physics;
· Physics Update</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

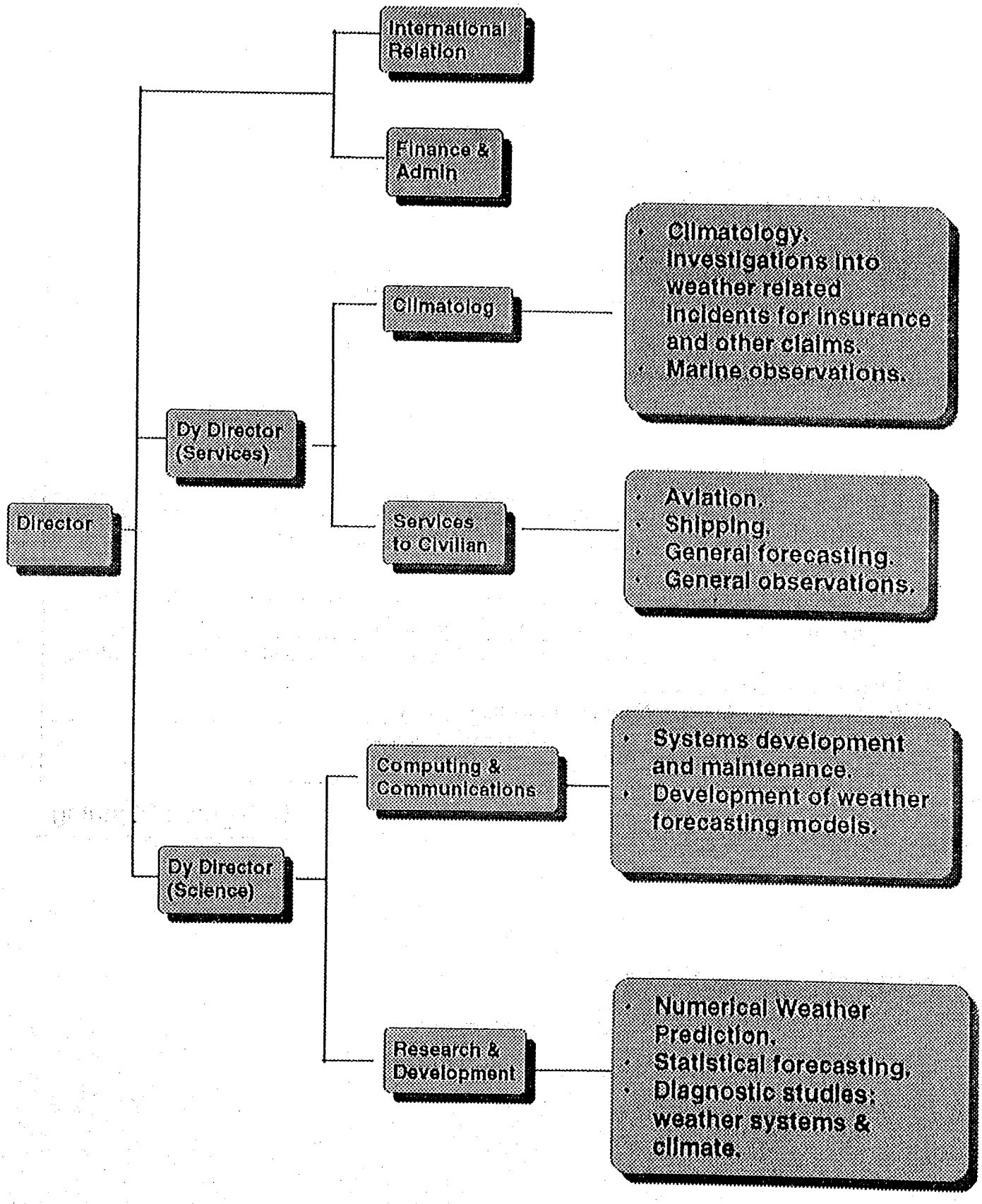
<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Lee Kong Chian Centre for Mathematical Research</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Integral unit of the National University of Singapore.</td><td>Director or Office name :
Prof. T. A. Peng, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Singapore</td><td rowspan="2">Telephone : 7722737
Facsimile : 7795452
Telex : UNISP RS 33943</td></tr>
<tr><td>Mailing address :
National University of Singapore
Department of Mathematics Lower Kent Ridge Rd. Singapore 0511, Singapore</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 100
Supporting professionals :
Technicians : 2
Others : 12
Total : 114</td><td>Founding year :
1969</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Centre conducts research in pure and applied mathematics.</td></tr>
<tr><td>Research activities</td><td colspan="2">Research results published as research reports.
Meetings/Educational Activities: International conference is held (on an annual basis, in June) for all interested persons..</td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2">Researchers are all staff members of the Department of Mathematics, National University of Singapore.</td></tr>
</table>

Category : Others

Organization name	Institute name : Meteorological Service Singapore	Section name :
	Parent organization name : Integral unit of the Government of the Republic of Singapore.	Director or Office name : Paul Lo Su Siew, Director
Address information	Country name : Singapore	Telephone : 5457190 Facsimile : 5457192 Telex : 50345 (METSIN)
	Mailing address : Changi Airport P.O. Box 8 Singapore 9181, Singapore	
Organization description	Number of people research professionals : 5 supporting professionals : 29 technicians : 87 others : 7 Total : 128	Founding year : 1946
		Other Organization Information (Budget etc) : Appeox. US$6.5 million
	Organization Chart :	
Research area	Meteorology, including studies of local weather and monsoons.	
Research activities	Research results published as research reports. Meetings/Educational Activities: Holds in-house seminars.	
Publications	· Meteorological Memoirs (in English)	
Additional information		

Category : Others

FUNCTIONAL SETUP



Organization name	Institute name : Science Council of Singapore	Section name :
	Parent organization name : the Ministry of Trade and Industry	Director or Office name : Prof. Choo Seok Cheow, Chairman
Address information	Country name : Singapore Mailing address : Singapore Science Center Bldg.Science Center Rd. Singapore 2260, Singapore	Telephone : 5601885 Facsimile : 39055 Telex :
Organization description	Number of people Research professionals : Supporting professionals : Technicians : Others : Total : 18	Founding year : 1967 Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Council promotes the growth and development of national scientific and technical capabilities, including the Research and Development Assistance Scheme and the Singapore Science Park.	
Research activities	Meetings/Educational Activities: Sponsors Technology Month (annually in October) for professionals and the public.	
Publications	· Annual Report, R & D Survey (Manpower and Expenditure) (three times per year); · Synergy Newsletter (six times per year).	
Additional information		

Category : Planning

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Singapore Institute of Standards and Industrial Research (SISIR)</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Ministry of Trade and Industry</td><td>Director or Office name :
Col. Quek Poh Huat, Chairman</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Singapore</td><td rowspan="2">Telephone : 7787777
Facsimile : 7780086
Telex : RS 28499 SISIR</td></tr>
<tr><td>Mailing address :
1 Science Park Drive Singapore 0511, Singapore</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
Research professionals : 130
Supporting professionals :
Technicians :
Others :
Total : 420</td><td>Founding year :
1973</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">SISIR's research and testing activities are carried out in three technical divisions: 1) Technical Engineering and Scientific Services Division carries out studies in physical and nondestructive testing, mechanical and structural engineering, analytical chemistry, food technology and microbiology, and chemical processes; 2) Materials Technology and Application Center conducts research on metals, plastics, and chemistry; 3) Standards and Quality Assurance Division carries out studies in standardization, quality assurance, metrology, and electrotechnology; and 4) Development of electronics products, machines, and automated equipment.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report; Singapore Standards Yearbook (biennially);
· Directory of Certified Products in Singapore (annually);
· Techuratch (quarterly) (all in English).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

ABSTRACT

OF

INSTITUTE

Taiwan

Taiwan - 1

Organization name	Institute name : Geotechnical Research Center	Section name :
	Parent organization name :	Director or Office name : Dr. C. T. Chang, Director
Address information	Country name : Taiwan	Telephone(02)7692131 Facsimile : Telex : 11701
	Mailing address : Taipei 10572, Taiwan	
Organization description	Number of people research professionals:8 supportion professionals : 5 Technicians : 2 Others : 1 Total : 16	Founding year : 1980
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	stability analysis for slope and underground excavation; studies of techniques for in situ stress measurement within rock mass; aseismic design of underground structures; assessment of the effect of blasting vibration on nearby structures; development of rock improvement techniques; engineering geology, site investigation, and laboratory and in situ geotechnical testing; proposal of specifications and procedures for geotechnical testing and construction monitoring; and design and improvement of testing and monitoring equipment.	
Research activities		
Publications		
Additional information		

Category : Geology

Organization name	Institute name : Industrial Technology Research Institute	Section name :
	Parent organization name :	Director or Office name : Dr. Otto C. C. Lin, President
Address information	Country name : Taiwan	Telephone: (035) 966100 Facsimile : (035) 962445 Telex :
	Mailing address : Hsing Chu, Taiwan	
Organization description	Number of people research professionals : 3311 supportion professionals : 537 Technicians : 544 Others:729 Total : 5121	Founding year : 1973.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Major areas of study include electronics, machinery, materials, chemical and energy resources, opto-electronics, metrology, industrial safety and health, industrial pollution control, information, and aerospace. Major ITRI components include: 1) Union Chemical Laboratories; 2) Energy and Mining Research and Service Organization; 3) Electronics Research and Service Organization; 4) Center for Measurement Standards; 5)Mechanical Industry Research Laboratories; and 6) Materials Research Laboratories. Consult Country Index for listing of units described separately in this edition.	
Research activities		
Publications	· ITIS Report; · Energy Resources and Environment Quarterly; · Chinese Chemical Industrial Notes; · Electronic Development Monthly; · Chemical Information Joural; · Journal of Mechanics Industry; · MRL Bulletin of Research & Development Semiannual (in English).	
Additional information		

Category : Material

Organization name	Institute name : Institute of Information Science	Section name :
	Parent organization name : Academia Sinica, Taipei.	Director or Office name : Prof. Y. S. Kuo, Acting Chairman
Address information	Country name : Taiwan	Telephone: (02) 7824814 Facsimile : Telex :
	Mailing address : Taipei, Taiwan	
Organization description	Number of people research professionals : 16 supportion professionals : 35 Technicians:3 Others:10 Total : 64	Founding year : 1982.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute conducts research on information science, including studies in Chinese speech and character processing, computer graphics, computer vision, algorithm analysis, CAD/CAM, VLSI design layout, office automation, and networking.	
Research activities	Seminars are held on computer science (2x/month) and computer vision (weekly) for all interested persons.	
Publications	· IIS Technical Report; · Information Science and Engineering (2x/yr., in English).	
Additional information		

Category : Others

Organization name	Institute name : Mechanical Industry Research Laboratories	Section name :
	Parent organization name :	Director or Office name : Prof. Dr. Jia-Ming Shyu, General Director
Address information	Country name : Taiwan	Telephone: (035) 966100 Facsimile : Telex : 943132
	Mailing address : Hsinchu 31015, Taiwan	
Organization description	Number of people research professionals : 438 supportion professionals : 315 Technicians:264 Others:109 Total : 1126	Founding year : 1969
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	MIRL conducts research and development in metals and mechanical engineering. Programs of research interest include: development of automated tools, including industrial robots, FMS, computer-aided design/computer-aided manufacturing, CNC machine tool, automated storage/retrieval systems, laser machining, mechatronics, and NC machine tools; and development of heat power machinery.	
Research activities	Seminars on research-related topics are held on a monthly basis for local manufacturers.	
Publications	· Journal of Mechatronics Industry (monthly, in Chinese).	
Additional information		

Category : Material

Organization name	Institute name : Metal Industries Development Centre	Section name :
	Parent organization name : the Ministry of Economic Affairs, Taipei.	Director or Office name : Samuel S.C. Liang, President
Address information	Country name : Taiwan	Telephone:(07)35131209 Facsimile : (07) 3521528 Telex :
	Mailing address : Kaohsiung 81103, Taiwan	
Organization description	Number of people research professionals : 100 supportion professionals : 127 Technicians:62 Others:58 Total : .347	Founding year : 1963.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	<RD> MIDC carries out research and development for the local metal and engineering industries. Activities include: survey and analysis of basic industrial structure, management and manufacturing technology; prototype design and manufacture of machinery and tools for demonstration; and management and technology training and consultation services for industries. Areas of research interest include: computer-aided design and manufacturing, design and manufacturing of molds and dies, welding technology, foundry technology, metal forming technology, metal treatment technology, testing technology, and air pollution control for the metal industries.	
Research activities	Holds metal processings seminar (quarterly).	
Publications	· Metal Industries (bimonthly, in Chinese with English abstracts).	
Additional information		

Category : Material

<table>
<tr><td rowspan="2">Organization name</td><td>Institute name :
Refining and Manufacturing Research Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Chinese Petroleum Corporation,</td><td>Director or Office name :
Dr. K.Y. Tsai, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Taiwan</td><td rowspan="2">Telephone:5 222 4171
Facsimile : 5 225 0324
Telex : 72778 RMRC CPC</td></tr>
<tr><td>Mailing address :
Chia-Yi, Taiwan</td></tr>
<tr><td rowspan="3">Organization description</td><td rowspan="2">Number of people
research professionals : 110
supportion professionals : 80
Technicians:198
Others:90
Total : 478</td><td>Founding year :
1977</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Center's primary function is to enhance the research and development activities of the Chinese Petroleum Corporation. Areas of interest include petroleum products, refining processes, fuels and lubricants, environmental engineering, and material science.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

Organization name	Institute name : Union Chemical Laboratories	Section name :
	Parent organization name :	Director or Office name : Dr. Andrew Teh Hu, General Directo
Address information	Country name : Taiwan	Telephone(035)721321 Facsimile : (035) 71-6945 Telex : 31478
	Mailing address : Hsinchu 30042, Taiwan	
Organization description	Number of people research professionals : 348 supportion professionals : 71 Technicians:93 Others:74 Total : 586	Founding year : 1973.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Laboratories' mission is to improve the technical capabilities of local industries through development of new products and processes; market surveys; feasibility studies and economic evaluations; coordination of technology transfer; technical information collection and distribution; and assistance with production techniques. Laboratories carry out both applied and contract research and give technical advice to industry involving: 1) fiber spinning technology; 2) chemical process development; 3) polymer processing and polymerization; 4) biotechnology; 5) chemical analysis and physical property testing; 7) pollution control technology; and 7) catalysis.	
Research activities		
Publications	· Chemical Industry News (monthly, in Chinese).	
Additional information		

Category : Others

ABSTRACT

OF

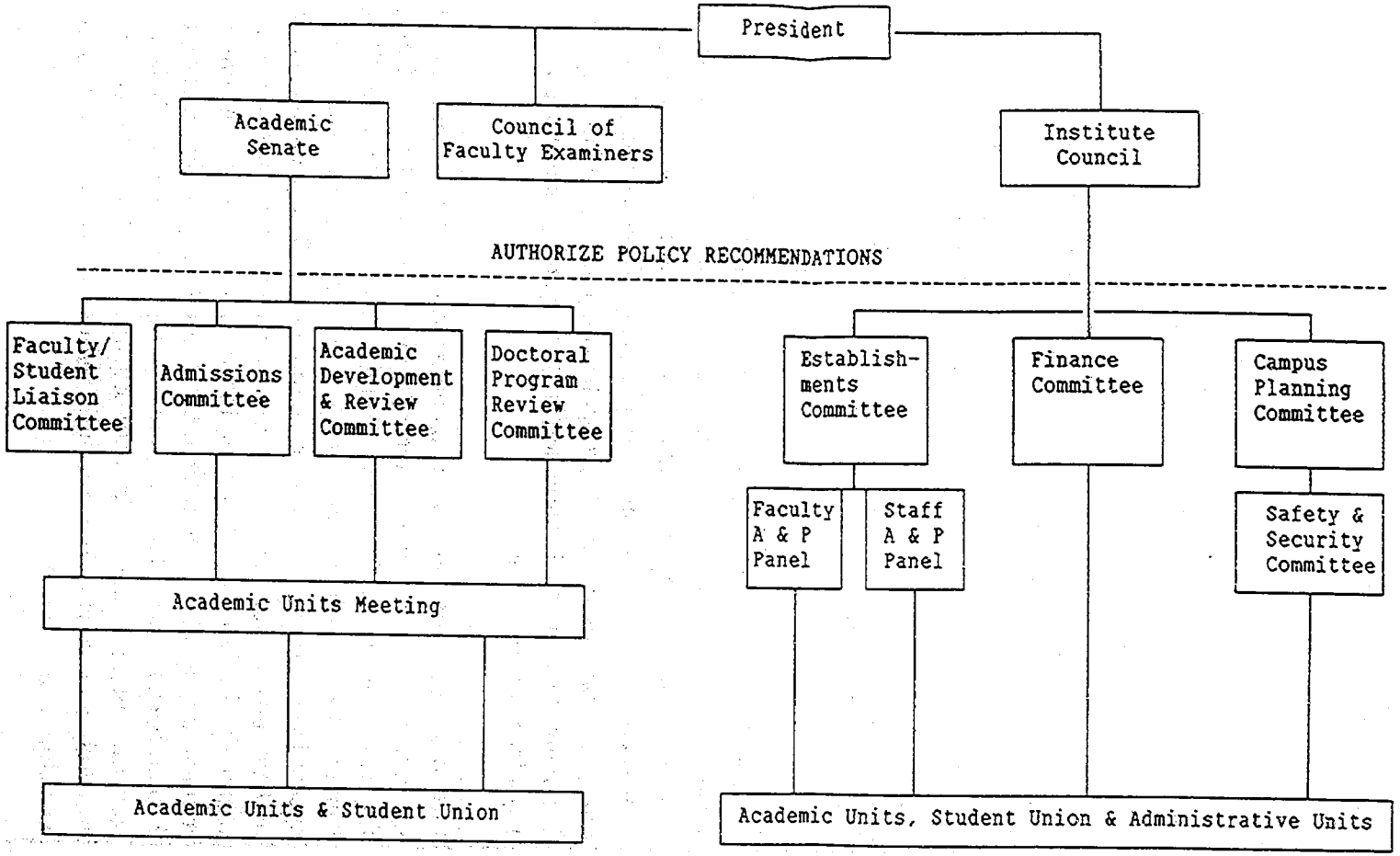
INSTITUTE

Thailand

Organization name	Institute name : Asian Institute of Technology	Section name :
	Parent organization name :	Director or Office name : Prof. Alastair M. North, President
Address information	Country name : Thailand	Telephone : (2) 5160110-44 Facsimile : (2) 5162126 Telex : 84276
	Mailing address : P.O.BOX 2754 Bangkok 10501, Thailand	
Organization description	Number of people research professionals:126 supportion professionals : 219 Technicians : 50 Others : 405 Total : 800	Founding year : 1959.
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	1) agricultural and food engineering,2) computer science,3) energy technology, 4) environmental engineering 5) human settlements, 6) industrial engineering and management,7) structural engineering, 8) construction,9) water resources engineering,10) geotechnical and transportation engineering,11)congahan engineering and management 12) natural resources development,13) technology management, 14) telecommunications.	
Research activities	Provides standard programs in engineering, science, and related fields at the diploma, masters, and doctoral levels. AIT's Center for Continuing Education, Regional Computer Center, and Asian Disaster Preparedness Center offers seminars, workshops, and conferences, short courses and specialized training sessions for government officials, engineers, scientists, and administrators. Specific programs include a Geotechnical Symposium (annually, in December) for engineers, training courses in computer application development (one to three times per year, in January, May or September), and disaster managem ent courses for senior officials in government and nonngovernment organizations. Public Services: Provides research and consultancy services through its Regional Research and Development Center.	
Publications	· AIT Review (3x/yr., in English) · Annual Report on Research and Activities (in English).	
Additional information		

Category :General

ACADEMIC ORGANIZATION: INSTITUTE COMMITTEE STRUCTURE



<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
Engineering Institute of Research and Development</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
Chulalongkorn University</td><td>Director or Office name :
Prof. Dr. Panitan Lukkunaprasit, Directord</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02)2525001
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Bangkok 5, Thailand</td></tr>
<tr><td rowspan="2">Organizatin description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others :
Total : 30</td><td>Founding year :
1978</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td></td><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Institute conducts and coordinates research and development in engineering. Areas of interest include energy, appropriate technology, agricultural machinery, materials, and environmental and industrial engineeting.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Chulalongkorn Engineering Research Bulletin</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
Forest Products Research Division</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Mr. Sansern Charernsri, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02) 579-8604
Facsimile :
Telex :</td></tr>
<tr><td>Mailing address :
Bangkok 10900, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:57
supportion professionals : 6
Technicians : 11
Others : 94
Total : 168</td><td>Founding year :
1934.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) wood properties, includingbasic studies in wood anatomy, physical properties, and mechanical properties;
2) timber utilization and engineering, including research in sawmilling and woodworking, timber drying, structural design and engineering, and wood energy (wood as a fuel source);
3) wood protection, involving the investigation of preservative treatment, wood-destroying insects and borers, and wood pathology;
4) forest products chemistry/chemical utilization, including studies in wood chemistry and pulp and paper technology;
5) plywood and composite materials, including research on plywood and laminated wood, composite board, fiber board, and wood cement board;
6) minor forest products.
7) Other areas of FPRD interest include operations and forest products extension.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Vanasarn;
· Anusarn Mai-ad Thai;
· Annual Forestry Proceedings.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
Kasetsart University Research and Development Institute</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. Dr. Thira Sutabutra, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : 02) 579-4956
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Bangkok 10900, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others :
Total : 207</td><td>Founding year :
1978.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">KURDI conducts, promotes, supports, and coordinates research activities in the agricultural sciences and social sciences. Specific areas of research interest include: agricultural machinery, soils and fertilizers, plant pests, seed technology, highland agriculture, cane and sugar production, corn and sorghum, applied microbiology, biochemistry, fisheries, forestry, coastal resources, environmental science, zoonoses, industrial entomology, applied economics, buffalo and swine production, beef and dairy production, biological control, biotechnology, tissue culture, and genetic engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2">Offers seminars, technical training, and annual workshops for researchers and scientists.</td></tr>
<tr><td>Publications</td><td colspan="2">· Research Annual Report;
· Kasetsart Journal.</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Agricalture

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
National Center for Genetic Engineering and Biotechnology</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Ministry of Science,Technology and Energy.</td><td>Director or Office name :
Prof. Dr. Yongyuth Yuthavong, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02) 245-2498
Facsimile :
Telex : 20838</td></tr>
<tr><td>Mailing address :
Bangkok 10400, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:2
supportion professionals : 8
Technicians :
Others : 7
Total : 17</td><td>Founding year :
1983.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) production of selected enzymes; 2 biotransformation of starch; 3) production of selected nutritional biochemicals; 4) improvement of small- and medium-scale bioindustry; 5) development, design, and construction of pilot plants; 6) plant and animal tissue culture for development of agriculture and agroindustry; 7) production of improved rhizobium, organic fertilizer, and mycorrhiza; 8) development of natural rubber; 9) producti on of improved bacterial larvicides; 10) improvement of efficiency of biofuel production; 11) utilization of industrial wastes; and 12) developmen of infrastructure in genetic engineering and biotechnology.</td></tr>
<tr><td>Research activities</td><td colspan="2">Organizes and supports conferences and workshops on genetic engineering and related areas. Also provides research fellowships for postgraduate study at master and doctoral levels.</td></tr>
<tr><td>Publications</td><td colspan="2">· Biotechnology Business News (quarterly, in Thai).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Others

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
Regional Center of Mineral Resources
Region Three (Chiangmai)</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Sathian Snansieng, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (053) 221-385
Facsimile : Telex :</td></tr>
<tr><td>Mailing address :
Chiangmai 50002, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:11
supportion professionals :
Technicians : 9
Others : 30
Total : 50</td><td>Founding year :
1964.</td></tr>
<tr><td>Other Organization Information
(Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">1) geology,
2) mining engineering,
3) ore dressing,
4)mineral chemistry.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Geology

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
Regional Research and Development Center</td><td>Section name :</td></tr>
<tr><td>Parent organization name :</td><td>Director or Office name :
Prof. P. P. G. L. Siriwardene, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02) 529-0100
Facsimile :
Telex : 84276</td></tr>
<tr><td>Mailing address :
Bangkok 10501, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:90
supportion professionals : 30
Technicians : 10
Others : 5
Total : 135</td><td>Founding year :
1982.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Center introduces research and development projects into the Asian region, and coordinates related activities both within and outside the Asian Institute of Technology. Principal areas of research interest include:
1) agricultural and food engineering;2) computer applications; 3) energy technology; 4) remote sensing; 5) environmental engineering;
6) geotechnical and transportation engineering; 7) human settlements development; 8) industrial engineering and management; 9) structural engineering and construction;10) water resources engineering.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
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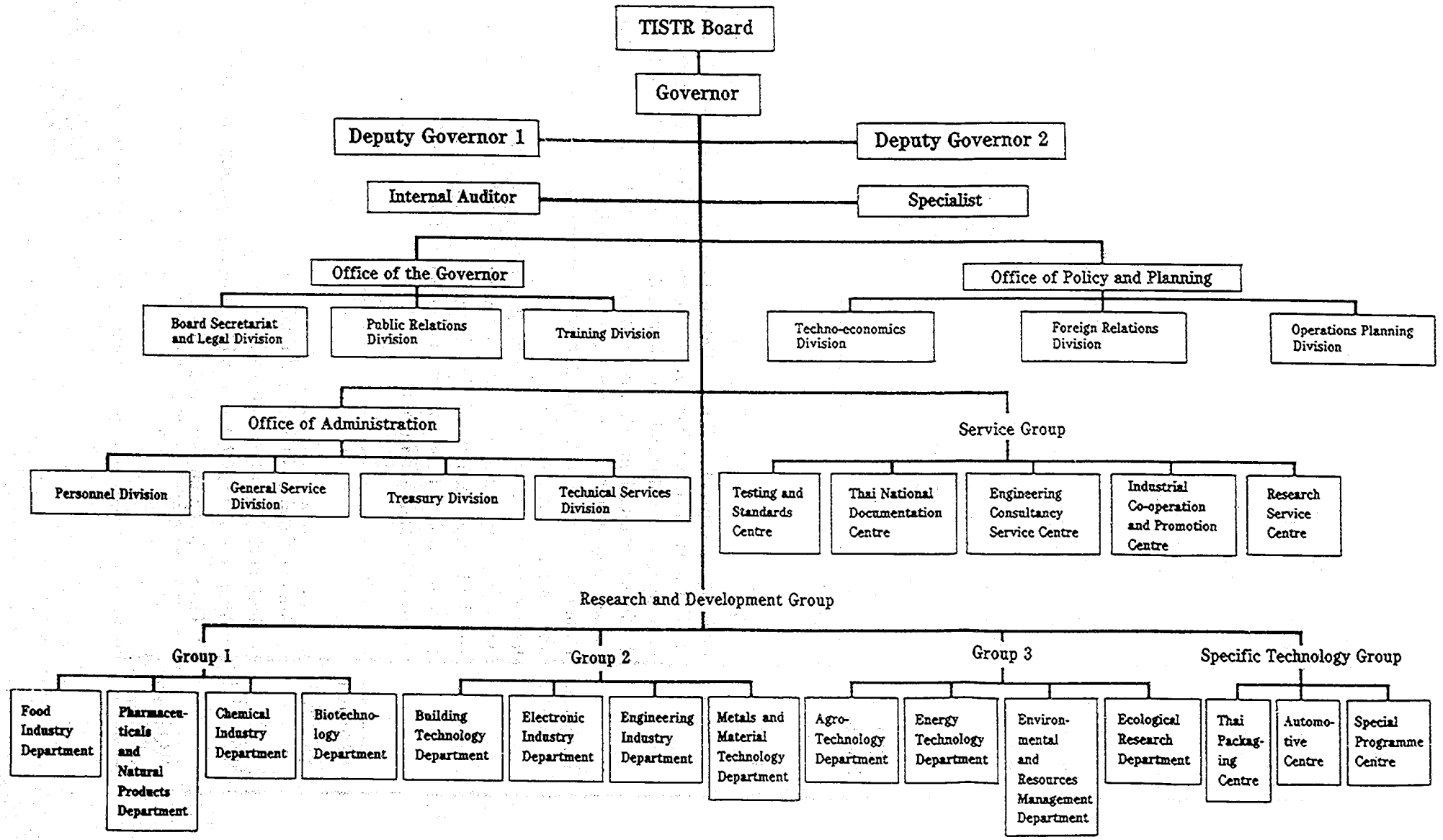
Category :General

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
Thailand Institute of Scientific and Technological Research</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
the Applied Scientific Research Corporation of Thailand</td><td>Director or Office name :
Dr. Smith Kampempool, Governor</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02) 579-1121
Facsimile : (02) 579-4940
Telex : 21392</td></tr>
<tr><td>Mailing address :
Bangkok 10900, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:369
supportion professionals : 242
Technicians : 131
Others :
Total : 742</td><td>Founding year :
1963.</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">TISTR conducts applied research relating to industrial, environmental, building, and agricultural development in Thailand. The Institute is organized in divisions for research in agriculture and agricultural products development; industrial development; pharmaceuticals and natural products; chemical industry; biotechnology; electronics; engineering; metals and materials; techno-economic studies; environment and resources; ecology; building; energy resources; and packaging. TISTR also provides scientific and technological services to various government agencies and private enterprises, including: mechanical, electrical, photometrical, chemic standards, and testing of industrial products; repair and calibration of scientific tools and apparatus; and collection of scientific and technological information and documents.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2">· Annual Report (in Thai and English);
· Technical Reports (in Thai and English);
· Abstracts of TISTR Technical Reports (in Thai and English);
· TISTR Research News (monthly).</td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

ORGANIZATION CHART

THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH



<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
TISTR Engineering Industry Department</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
The Thailand Institute of Scientific and Technological Research</td><td>Director or Office name :</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02) 579-1121
Facsimile :
Telex : 21392</td></tr>
<tr><td>Mailing address :
Bangkok 10900, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:
supportion professionals :
Technicians :
Others : Total :</td><td>Founding year :</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Department is responsible for research and development of machinery products, including studies on special alloys, machine parts and tools, engineering products, industrial plant machinery, and pilot plants.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category :General

<table>
<tr><td rowspan="2">Organizatin name</td><td>Institute name :
TISTR Metal and Material Technology Department</td><td>Section name :</td></tr>
<tr><td>Parent organization name :
The Thailand Institute of Scientific and Technological Research</td><td>Director or Office name :
Ladawal Chotimongkol, Director</td></tr>
<tr><td rowspan="2">Address information</td><td>Country name : Thailand</td><td rowspan="2">Telephone : (02) 579-1121
Facsimile :
Telex : 21392</td></tr>
<tr><td>Mailing address :
Bangkok 10900, Thailand</td></tr>
<tr><td rowspan="3">Organizatin description</td><td rowspan="2">Number of people
research professionals:12
supportion professionals : 3
Technicians : 2
Others : 1
Total : 18</td><td>Founding year :
1985</td></tr>
<tr><td>Other Organization Information (Budget etc) :</td></tr>
<tr><td colspan="2">Organization Chart :</td></tr>
<tr><td>Research area</td><td colspan="2">Department conducts research and development aimed at improving processing techniques and quality control for mineral, metal, plastic, and ceramic industies. Areas of interest include:the use of local resouces and essential imported materials in the production of high quality metal products, machine components, and parts for the engineering and electronics industries; the effective exploitation of indusieial minerals; theproduction of ceuamic products for use in engineering, electrical and electronics industries, automotive spare parts, and construction materials; and reliability testing of materials, including corrosion prevention measures.</td></tr>
<tr><td>Research activities</td><td colspan="2"></td></tr>
<tr><td>Publications</td><td colspan="2"></td></tr>
<tr><td>Additional information</td><td colspan="2"></td></tr>
</table>

Category : Material

ABSTRACT

OF

INSTITUTE

Turkey

Organization name	Institute name : Ankara Seismic Research Observatory	Section name :
	Parent organization name : Integral unit of the Department of Geological Engineering, Middle East Technical University.	Director or Office name : Dr. Oznur Mindevalli, Director
Address information	Country name : Turkey	Telephone : (4) 2237100 Facsimile : Telex : 42761 odtk-tr
	Mailing address : Department of Geological Engineering Middle East Technical Univeristy 06531 Ankara, Turkey	
Organization description	Number of people research professionals : 2 technician : 1 total : 3	Founding year : 1978
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Analog and digital seismic data.	
Research activities	Research results published in dissertations.	
Publications		
Additional information	One of 13 seismic research observatories in the world, whose data are stored at U.S. Geological Survey, Albuquerque, New Mexico.	

Category : Others

Organization name	Institute name : Building Research Institute Yapi Arasirma Enstitusu (BRIYAE)	Section name :
	Parent organization name : Integral unit of Scientific and Technical Research Council of Turkey	Director or Office name : Prof. Orhan Alsac Director
Address information	Country name : Turkey	Telephone : (41) 23 32 25 Facsimile : Telex : 43186
	Mailing address : Bilir Sokak 17 Kavaklidere Ankara, Turkey	
Organization description	Number of people research professionals : 38 supporting professionals : 33 technicians : 10 others : 25 total : 106	Founding year : 1970
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Institute's primary goal is to promote the advancement of building science and technology in Turkey. Principal objectives are: to carry out research on problems related to environmental systems, structural systems, building planning processes, and construction with respect to technological, economic, and management criteria; to advise public authorities and the industry in matters related to building technologies and management techniques; to promote the education and training of research personnel; and to collect, process, and disseminate information on building research through publications and scientific meetings. Institute's activities are carried out through four research units: 1) the Environmental Systems Research Unit, which is concerned with studies in energy, ergonomics, bioclimatology, acoustics and noise control, illumination, building hygiene, and fire protection; 2) the Structural Systems Research Unit, which carries out studies in statics and dynamics of structures, engineering seismology, structural performance, economy of structures, and instrument development; 3) the Building Planning Research Unit, which is responsible for studies in planning, building programming, design processes, building economics, and information systems; and 4) the Building Construction Research Unit, which conducts studies in building technology, mechanization, construction management, and materials and components.	
Research activities	Research results published as research reports and proceedings.	
Publications	· Teknik Bulten (quarterly, in Turkish).	
Additional information		

Organization name	Institute name : Department of Technical Research and Materials	Section name :
	Parent organization name : the General Directorate of Highways	Director or Office name : Tankut Balkir, Head of Department
Address information	Country name : Turkey	Telephone : (4) 1191430 Facsimile : (4) 1172851 Telex : 46270 TR
	Mailing address : Yucetepe 06100 Ankara, Turkey	
Organization description	Number of people research professionals : 34 supporting professionals : 24 technicians : 68 others : 5 Total : 131	Founding year : 1978
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Department's research and development program is concerned with geotechnical and geophysical investigations, airphoto interpretations, soil and rock mechanics, tunneling, testing and quality control of highway materials, and pavement design and deflection studies.	
Research activities	Findings are published as research reports.	
Publications	· Technical Bulletin (irregularly, in Turkish).	
Additional information		

Category : Geology

Organization name	Institute name : Earthquake Research Department	Section name :
	Parent organization name : the Ministry of Public Works and Resettlement	Director or Office name : Oktay Ergunay, Director
Address information	Country name : Turkey	Telephone : (4) 287 36 45 Facsimile : (4) 213 76 58 Telex : 42477 AJET TR
	Mailing address : Eskishir Yolu 10 Km. Lodumlu Mevkii Ankara, Turkey	
Organization description	Number of people research professionals : 20 supporting professionals : 46 technicians : 15 total : 81	Founding year : 1969
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Seismology, seismic, and earthquake engineering; soil investigations; structural testing, and disaster preparedness and management.	
Research activities	Research findings are published as research reports and proceedings.	
Publications	· Earthquake Research Bulletin (quarterly).	
Additional information		

Category : Disaster

Organization name	Institute name : Scientific and Technical Research Council of Turkey (TUBITAK)	Section name :
	Parent organization name : Council is attached to the Office of the Prime Minister	Director or Office name :
Address information	Country name : Turkey	Telephone : (41) 26 27 70 Facsimile : 43186 Telex :
	Mailing address : Ataturk Bulvari 221, Kavaklidere Ankara, Turkey	
Organization description	Number of people research professionals : 265 supporting professionals : 67 technicians : 158 others : 535 total : 1025	Founding year : 1963
		Other Organization Information (Budget etc) :
	Organization Chart :	
Research area	Council's primary purpose is to develop, promote, and coordinate basic and applied scientific research. Principal fields of research interest include agriculture, engineering, basic sciences, medicine, veterinary medicine and animal husbandry, and environmental sciences.	
Research activities	Findings are published in primary journals, and as research reports and proceedings.	
Publications	· Bilim ve Teknik (monthly, in Turkish); · Doga (quarterly, in Turkish with English abstracts), TUBITAK Bulteni (bimonthly, in Turkish with English summaries); · TUBITAK Yapi Arastirma Enstitusu Teknik Bulteni (quarterly, in Turkish).	
Additional information	Council's affiliated units include: Building Research Institute (see separate entry); Marmara Scientific and Industrial Research Institute (see separate entry); Ballistics Research Institute (Ataturk Bulvari 221, Kavaklidere, Ankara); Basic Sciences Research Institute (P. O. Box 74 Gebze, Kocaeli); and Ankara Electronics Research and Development Institute (Middle East Technical University, Ankara).	

Category :General

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要旨 本報告書は，アジア・太平洋諸国における土木技術開発に関連する研究所の研究活動，組織等をとりまとめたものである。

キーワード：アジア・太平洋，土木技術，研究所

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No.

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上記のとおり受領しました。

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